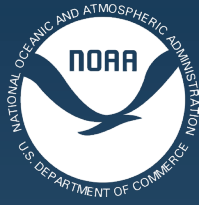


NWFSC Processed Report 2018-01



# Observed and Estimated Total Bycatch of Salmon in U.S. West Coast Fisheries, 2002–16

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August 2018

**U.S. DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
National Marine Fisheries Service  
Northwest Fisheries Science Center

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# Observed and Estimated Total Bycatch of Salmon in U.S. West Coast Fisheries, 2002–16

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August 2018

**U.S. DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
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### **Reference this document as follows:**

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### **Note:**

Due to the quantity of data they contain, Tables 2, 14, 16, 18, 22, 24, 25, 26, 27, 28, and 29 have been typeset on legal-sized pages. Printing them on regular, letter-sized paper may result in reduced legibility.

# Contents

|                          |     |
|--------------------------|-----|
| Report Description.....  | 1   |
| Trends from 2002–16..... | 2   |
| References.....          | 101 |

## Figures

|  |   |
|--|---|
| Figure 1. Trends from 2002–16 for Chinook and coho salmon bycatch in fisheries observed by the A-SHOP, CM, and WCGOP ..... | 2 |
|--|---|

## Tables

|  |       |
|--|-------|
| Table 1. Observed vessels, trips, hauls, catch, and salmon interactions, as well as total fleet landings, stratified by year, season, salmon management area, and depth interval for the LE trawl fishery..... | 3–10  |
| Table 2a. Observed and expanded Chinook salmon bycatch in the LE trawl fishery .....   | 11–13 |
| Table 2b. Observed and expanded chum salmon bycatch in the LE trawl fishery .....  | 14–16 |
| Table 2c. Observed and expanded coho salmon bycatch in the LE trawl fishery .....  | 17–19 |
| Table 2d. Observed and expanded pink salmon bycatch in the LE trawl fishery .....  | 20–22 |
| Table 2e. Observed and expanded unspecified bycatch in the LE trawl fishery .....  | 23–25 |
| Table 3. Observed vessels, trips, hauls, catch, and salmon interactions, as well as total fleet landings, stratified by year and season for the LE CA halibut fishery.....                                     | 26    |
| Table 4a. Observed and expanded Chinook salmon bycatch in the LE CHLB fishery.....   | 27    |
| Table 4b. Observed and expanded coho salmon bycatch in the LE CHLB fishery .....   | 28    |
| Table 4c. Observed and expanded unspecified bycatch in the LE CHLB fishery .....   | 29    |
| Table 5. Observed vessels, trips, hauls, catch, and salmon interactions, as well as fleet landings, stratified by year for the OA CA halibut fishery.....  | 30    |
| Table 6a. Observed and expanded Chinook salmon bycatch in the OA CHLB fishery .....  | 31    |
| Table 6b. Observed and expanded unspecified bycatch in the OA CHLB fishery.....  | 31    |
| Table 7. Observed vessels, trips, hauls, catch, and salmon interactions, as well as fleet landings, for the combined LE & OA CA halibut fishery .....  | 32    |
| Table 8. Observed and expanded salmon bycatch in the combined LE & OA CHLB fishery.....  | 32    |
| Table 9. Observed vessels, trips, hauls, catch, and salmon interactions, as well as fleet landings, stratified by year and area for the LE sablefish primary fishery, using hook-and-line gear .....           | 33–34 |
| Table 10a. Observed and expanded coho bycatch in the LE sablefish primary fishery (hook-and-line). .....   | 35    |
| Table 10b. Observed and expanded unspecified bycatch in the LE sablefish primary fishery (hook-and-line) ....  | 35    |
| Table 11. Observed vessels, trips, hauls, catch, and salmon interactions, as well as fleet landings, stratified by state, year, and area for the pink shrimp fishery .....                                     | 36–37 |

|  |       |
|--|-------|
| Table 12a. Observed and expanded Chinook salmon bycatch in the pink shrimp fishery .....   | 38    |
| Table 12b. Observed and expanded chum salmon bycatch in the pink shrimp fishery .....  | 38    |
| Table 12c. Observed and expanded coho salmon bycatch in the pink shrimp fishery.....   | 38    |
| Table 13. Observed vessels, trips, hauls, catch, and salmon interactions, as well as fleet landings,<br>stratified by state, year, and area for the nearshore fishery .....  | 39–40 |
| Table 14a. Observed and expanded Chinook salmon bycatch in the nearshore fishery .....   | 41    |
| Table 14b. Observed and expanded coho salmon bycatch in the nearshore fishery.....   | 42    |
| Table 14c. Observed and expanded unspecified bycatch in the nearshore fishery .....  | 43    |
| Table 15. Observed vessels, trips, hauls, catch, and salmon, as well as fleet landings, stratified by year,<br>season, depth bin, and salmon management area for catch shares non-hake bottom trawl.....             | 44–48 |
| Table 16a. Observed at-sea, estimated unknown, landed, and total Chinook salmon bycatch<br>in the catch shares non-hake bottom trawl fishery.....  | 49–51 |
| Table 16b. Observed at-sea, estimated unknown, landed, and total coho salmon bycatch<br>in the catch shares non-hake bottom trawl fishery.....   | 52–54 |
| Table 16c. Observed at-sea, estimated unknown, landed, and total pink salmon bycatch<br>in the catch shares non-hake bottom trawl fishery.....   | 55–57 |
| Table 16d. Observed at-sea, estimated unknown, landed, and total sockeye salmon bycatch<br>in the catch shares non-hake bottom trawl fishery.....  | 58–60 |
| Table 16e. Observed at-sea, estimated unknown, landed, and total unspecified bycatch<br>in the catch shares non-hake bottom trawl fishery.....   | 61–63 |
| Table 17. Observed vessels, trips, hauls, catch, and salmon, as well as fleet landings,<br>stratified by year, target strategy, season, and salmon management area for shoreside<br>catch shares midwater trawl..... | 64    |
| Table 18a. Observed at-sea, estimated unknown, landed, and total Chinook salmon bycatch<br>in the catch shares midwater trawl fishery.....   | 65    |
| Table 18b. Observed at-sea, estimated unknown, landed, and total chum salmon bycatch<br>in the catch shares midwater trawl fishery.....  | 66    |
| Table 18c. Observed at-sea, estimated unknown, landed, and total coho salmon bycatch<br>in the catch shares midwater trawl fishery.....  | 67    |
| Table 18d. Observed at-sea, estimated unknown, landed, and total pink salmon bycatch<br>in the catch shares midwater trawl fishery.....  | 68    |
| Table 18e. Observed at-sea, estimated unknown, landed, and total sockeye salmon bycatch<br>in the catch shares midwater trawl fishery.....   | 69    |
| Table 18f. Observed at-sea, estimated unknown, landed, and total unspecified bycatch<br>in the catch shares midwater trawl fishery.....  | 70    |
| Table 19. Observed vessels, trips, hauls, catch, and salmon interactions, as well as fleet landings,<br>for the CS hook-and-line fishery.....  | 71    |

|   |       |
|---|-------|
| Table 20. Observed at-sea, estimated unknown, landed, and total salmon bycatch in the CS hook-and-line fishery .....  | 71    |
| Table 21. Effort in the electronically monitored (EM) portion of the shoreside catch shares trawl fleet, based on EM, logbook, and fish ticket data.....        | 72    |
| Table 22. Salmon bycatch EM portion of the shoreside catch shares trawl fleet, based on EM, logbook, and fish ticket data .....                                 | 73    |
| Table 23. Observed vessels, hauls, and salmon interactions, as well as fleet landings, stratified by sector, year, and season for the at-sea hake fishery ..... | 74–75 |
| Table 24. Observed salmon bycatch in the at-sea hake fishery .....  | 76–77 |
| Table 25a. Summary of salmon bycatch count and weight by species and sector, 2002–06.....   | 78–80 |
| Table 25b. Summary of salmon bycatch count and weight by species and sector, 2007–11.....   | 80–82 |
| Table 25c. Summary of salmon bycatch count and weight by species and sector, 2012–16 .....  | 83–85 |
| Table 26. Summary of biological data for at-sea salmon catch, separated by sector, collected by WCGOP observers from 2002–16.....                               | 86–88 |
| Table 27. Summary of biological data for salmon discarded shoreside, collected by the Catch Monitor (CM) program 2010–16 .....                                  | 89–90 |
| Table 28. Summary of biological data for salmon species, separated by sector, collected by A-SHOP observers from 1980–2016.....                                 | 91–99 |
| Table 29. Observed salmon bycatch in the historic at-sea hake fishery .....   | 100   |

# Report Description

This processed report summarizes the observed and estimated total bycatch in terms of individual counts and weights for all salmon species observed in fisheries monitored by the West Coast Groundfish Observer Program (WCGOP), the At-Sea Hake Observer Program (A-SHOP), the Electronic Monitoring (EM) Program, and the Catch Monitor (CM) Program. Methods used follow the previous salmon report (Somers et al. 2015) and the most recent groundfish mortality report (Somers et al. 2016).

The Fisheries Observation Science (FOS) Program at the Northwest Fishery Science Center consists of two programs, the At-Sea Hake Observer Program (A-SHOP) and the West Coast Groundfish Observer Program (WCGOP). The A-SHOP observes the hake fleet that processes catch at sea, while the WCGOP observes a number of fleets that deliver catch shoreside for processing, including sectors that target and incidentally impact groundfish. Both programs place trained scientists on board commercial fishing vessels to observe and sample all catch; the WCGOP specifically focuses on at-sea discard estimates. Once landed shoreside, catch is sampled by the CM program; for vessels fishing under maximized or optimized retention, this sampling quantifies the majority of their bycatch. This report also includes fish ticket landings data from the Pacific Fishery Information Network (PacFIN).

Every year this report is updated to include the newest year of data, the most current data from the FOS and PacFIN for previous years, and the most recent data processing procedures. Data processing updates are described in the Groundfish Mortality report, which is available in draft form annually in the Pacific Fishery Management Council September Briefing Book and later in the year in final form via a Technical Memorandum. The tables in this processed report are also available as [spreadsheets](#).<sup>1</sup>

In this report, for each sector in which salmon bycatch occurred, we provide two tables, one showing observer or sampling coverage for all strata with observed effort and a second showing bycatch data for only those strata with salmon bycatch. Some tables include seasonal strata. For the shoreside-processed fisheries, these are defined as winter (January to April and November to December) or summer (May to October); for the at-sea processed fisheries, these are defined as spring (May 15, when the season opens, to June 30) or fall (July 1 to December 31). All weight units are in metric tons (mt), except for individual fish in biological data tables, which are in kilograms (kg).

All count values were rounded to an integer value using standard rounding rules in each table for presentation purposes; for that reason, a sum of the rounded values over rows within sector-level tables may not be equivalent to the value in the final summary tables. Similarly, 0 values represent cases where catch or salmon was present but the numeric value was less than the digits shown, while a double dash line represents strata where no salmon were observed. In cases where fewer than 3 vessels were active, data cannot be shown in order to maintain confidentiality; these strata are reported as asterisks (\*). Additionally, the at symbol (@) represents strata for which the potential bootstrapping pool had less than 3 vessels and so could not be estimated: this represented less than 0.25 percent of fishing effort in regards to yearly landings. Finally, the hash symbol (#) represents cases where only a single haul with salmon was observed, so the SE calculation is not informative.

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<sup>1</sup> [https://www.nwfsc.noaa.gov/research/divisions/fram/observation/data\\_products/protected\\_species.cfm](https://www.nwfsc.noaa.gov/research/divisions/fram/observation/data_products/protected_species.cfm)

## Trends from 2002–16

We present trends in Chinook and Coho salmon bycatch, because troll fisheries target both salmon species. Bycatch in non-targeting fisheries has the potential to cause conflict between sectors. This has been the case for Chinook salmon, and high levels of bycatch in some years have created an on-going fisheries management challenge. We present data beginning in 2002, when the WCGOP began observing these fisheries. Chinook bycatch in the hake fishery as a whole has been volatile, with a high in 2014. In 2015 and 2016, bycatch was moderate compared to the historic record. Non-catch shares bycatch has been minimal across all years. After extremely high bycatch in 2002 and 2003, Chinook bycatch has remained relatively low in the shoreside non-hake fishery. 2014 saw the highest bycatch since 2005, and has decreased over 2015 and 2016. Moderate bycatch by tribal fisheries occurred from 2003 to 2005, but has since decreased and remained low since 2009.

Coho salmon bycatch in the hake fishery has been variable, with highs in 2007, and 2014. In other years, bycatch has been relatively low. Bycatch in the NCS and shoreside non-hake fisheries have remained at moderate levels across all years. Tribal bycatch was high from 2003–05, but has remained moderate across most years with little to no fishing effort in the mothership catcher-vessel sector from 2012–17. Zero bycatch from 2014 to 2016, largely due to extremely low fishing effort in recent years.



Figure 1. Trends from 2002–16 for Chinook and Coho salmon bycatch in fisheries observed by the A-SHOP, CM, and WCGOP. *Hake* consists of at-sea catcher processors, at-sea mothership catcher-vessels, and shoreside catcher vessels. *NCS* consists of non-catch shares exempted fishing permits, sablefish primary, nearshore, open access California halibut, and pink shrimp. *SS Non-Hake* consists of shoreside limited entry (LE) and catch shares (CS) bottom trawl, CS fixed gear, CS midwater rockfish, and LE California halibut. *Tribal* consists of tribal mothership catcher-vessels and tribal shoreside processors.



Table 1. Observed vessels, trips, hauls, catch, and salmon interactions, as well as total fleet landings, stratified by year, season, salmon management area, and depth interval for the LE trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Observed Groundfish Landings (mt) | Fleet | Observed Vessels | Observed Trips | Observed Hauls | Observed Hauls that Encountered Salmon | Percent of Observed Hauls that Encountered Salmon |
|------|---------------------------------------|--------|----------------------|-----------------------------------|-------|------------------|----------------|----------------|--|---|
| 2002 | North of Cape Falcon, OR              | Winter | 0-125                | 150                               | 905   | 13               | 46             | 248            | 52                                     | 21  |
| 2002 | North of Cape Falcon, OR              | Winter | 125-250              | 235                               | 994   | 13               | 35             | 153            | 24                                     | 16  |
| 2002 | North of Cape Falcon, OR              | Winter | 250+                 | 170                               | 917   | 16               | 37             | 127            | 3                                      | 2   |
| 2002 | North of Cape Falcon, OR              | Summer | 0-125                | 403                               | 2326  | 20               | 137            | 828            | 50                                     | 6   |
| 2002 | North of Cape Falcon, OR              | Summer | 125-250              | 9                                 | 382   | 3                | 4              | 7              | --                                     | --  |
| 2002 | North of Cape Falcon, OR              | Summer | 250+                 | 20                                | 167   | 4                | 5              | 18             | --                                     | --  |
| 2002 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | 39                                | 345   | 8                | 16             | 75             | 18                                     | 24  |
| 2002 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 65                                | 717   | 15               | 33             | 84             | 19                                     | 23  |
| 2002 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 142                               | 1050  | 17               | 38             | 142            | --                                     | --  |
| 2002 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 104                               | 837   | 11               | 49             | 258            | 5                                      | 2   |
| 2002 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 16                                | 205   | 7                | 11             | 24             | --                                     | --  |
| 2002 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 250+                 | 52                                | 343   | 11               | 14             | 65             | --                                     | --  |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-125                | 21                                | 233   | 7                | 16             | 50             | 18                                     | 36  |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 30                                | 430   | 12               | 19             | 42             | 19                                     | 45  |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 196                               | 1292  | 24               | 62             | 190            | 1                                      | 1   |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 61                                | 727   | 11               | 38             | 143            | 14                                     | 10  |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 125-250              | 17                                | 175   | 4                | 11             | 23             | --                                     | --  |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 250+                 | 103                               | 644   | 11               | 36             | 128            | --                                     | --  |
| 2002 | South of Cape Mendocino, CA           | Winter | 0-125                | 69                                | 491   | 10               | 26             | 63             | 8                                      | 13  |
| 2002 | South of Cape Mendocino, CA           | Winter | 125-250              | 81                                | 580   | 15               | 34             | 89             | 2                                      | 2   |
| 2002 | South of Cape Mendocino, CA           | Winter | 250+                 | 140                               | 1097  | 19               | 38             | 123            | --                                     | --  |
| 2002 | South of Cape Mendocino, CA           | Summer | 0-125                | 17                                | 265   | 4                | 9              | 20             | 2                                      | 10  |
| 2002 | South of Cape Mendocino, CA           | Summer | 125-250              | 109                               | 626   | 23               | 41             | 76             | 3                                      | 4   |
| 2002 | South of Cape Mendocino, CA           | Summer | 250+                 | 253                               | 1568  | 27               | 60             | 209            | --                                     | --  |
| 2003 | North of Cape Falcon, OR              | Winter | 0-125                | 162                               | 1075  | 11               | 35             | 203            | 33                                     | 16  |
| 2003 | North of Cape Falcon, OR              | Winter | 125-250              | 85                                | 971   | 10               | 17             | 58             | 9                                      | 16  |
| 2003 | North of Cape Falcon, OR              | Winter | 250+                 | 161                               | 1041  | 16               | 25             | 110            | --                                     | --  |
| 2003 | North of Cape Falcon, OR              | Summer | 0-125                | 65                                | 1434  | 7                | 19             | 137            | 23                                     | 17  |

Table 1 (continued). Observed vessels, trips, hauls, catch, and salmon interactions, as well as total fleet landings, for the LE trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Observed Groundfish Landings (mt) | Fleet | Observed Vessels | Observed Trips | Observed Hauls | Observed Hauls that Encountered Salmon | Percent of Observed Hauls that Encountered Salmon |
|------|---------------------------------------|--------|----------------------|-----------------------------------|-------|------------------|----------------|----------------|--|---|
| 2003 | North of Cape Falcon, OR              | Summer | 125-250              | 128                               | 781   | 11               | 25             | 112            | --                                     | --  |
| 2003 | North of Cape Falcon, OR              | Summer | 250+                 | 113                               | 430   | 11               | 27             | 136            | --                                     | --  |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | 61                                | 380   | 8                | 16             | 87             | 53                                     | 61  |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 146                               | 764   | 19               | 44             | 135            | 17                                     | 13  |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 193                               | 841   | 25               | 47             | 176            | 1                                      | 1   |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | *                                 | 503   | *                | *              | *              | *                                      | *   |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 72                                | 623   | 12               | 19             | 69             | --                                     | --  |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 250+                 | 97                                | 736   | 14               | 21             | 84             | --                                     | --  |
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-125                | 29                                | 146   | 8                | 15             | 39             | 16                                     | 41  |
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 41                                | 279   | 7                | 15             | 31             | 5                                      | 16  |
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 187                               | 987   | 18               | 40             | 123            | --                                     | --  |
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 18                                | 190   | 5                | 11             | 28             | 5                                      | 18  |
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 125-250              | 119                               | 580   | 17               | 35             | 80             | --                                     | --  |
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 250+                 | 240                               | 1432  | 23               | 59             | 190            | --                                     | --  |
| 2003 | South of Cape Mendocino, CA           | Winter | 0-125                | *                                 | 205   | *                | *              | *              | *                                      | *   |
| 2003 | South of Cape Mendocino, CA           | Winter | 125-250              | 39                                | 448   | 5                | 13             | 31             | --                                     | --  |
| 2003 | South of Cape Mendocino, CA           | Winter | 250+                 | 142                               | 1183  | 16               | 31             | 104            | --                                     | --  |
| 2003 | South of Cape Mendocino, CA           | Summer | 0-125                | 49                                | 350   | 10               | 55             | 155            | 11                                     | 7   |
| 2003 | South of Cape Mendocino, CA           | Summer | 125-250              | 49                                | 350   | 12               | 25             | 39             | 1                                      | 3   |
| 2003 | South of Cape Mendocino, CA           | Summer | 250+                 | 217                               | 1661  | 21               | 55             | 153            | --                                     | --  |
| 2004 | North of Cape Falcon, OR              | Winter | 0-125                | 134                               | 309   | 8                | 55             | 271            | 44                                     | 16  |
| 2004 | North of Cape Falcon, OR              | Winter | 125-250              | 355                               | 1457  | 17               | 47             | 201            | 20                                     | 10  |
| 2004 | North of Cape Falcon, OR              | Winter | 250+                 | 397                               | 1355  | 17               | 51             | 208            | 1                                      | 0   |
| 2004 | North of Cape Falcon, OR              | Summer | 0-125                | 419                               | 2785  | 16               | 119            | 802            | 22                                     | 3   |
| 2004 | North of Cape Falcon, OR              | Summer | 125-250              | 153                               | 805   | 11               | 18             | 73             | 1                                      | 1   |
| 2004 | North of Cape Falcon, OR              | Summer | 250+                 | 82                                | 231   | 10               | 16             | 80             | --                                     | --  |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | 8                                 | 8     | 3                | 8              | 32             | 4                                      | 13  |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 227                               | 751   | 19               | 43             | 130            | 16                                     | 12  |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 285                               | 1147  | 22               | 45             | 149            | 1                                      | 1   |

Table 1 (continued). Observed vessels, trips, hauls, catch, and salmon interactions, as well as total fleet landings, for the LE trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Observed Groundfish Landings (mt) | Fleet | Observed Vessels | Observed Trips | Observed Hauls | Observed Hauls that Encountered Salmon | Percent of Observed Hauls that Encountered Salmon |
|------|---------------------------------------|--------|----------------------|-----------------------------------|-------|------------------|----------------|----------------|--|---|
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 34                                | 443   | 5                | 19             | 98             | 9                                      | 9   |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 200                               | 946   | 18               | 40             | 154            | --                                     | --  |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 250+                 | 219                               | 637   | 21               | 38             | 153            | --                                     | --  |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-125                | *                                 | @     | *                | *              | *              | *                                      | *   |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 109                               | 274   | 8                | 23             | 59             | 14                                     | 24  |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 233                               | 647   | 11               | 34             | 111            | 1                                      | 1   |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 70                                | 395   | 6                | 19             | 70             | 3                                      | 4   |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 125-250              | 97                                | 426   | 12               | 20             | 44             | --                                     | --  |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 250+                 | 164                               | 773   | 13               | 31             | 101            | --                                     | --  |
| 2004 | South of Cape Mendocino, CA           | Winter | 0-125                | 8                                 | 71    | 4                | 14             | 40             | --                                     | --  |
| 2004 | South of Cape Mendocino, CA           | Winter | 125-250              | 87                                | 365   | 14               | 36             | 96             | 2                                      | 2   |
| 2004 | South of Cape Mendocino, CA           | Winter | 250+                 | 407                               | 1048  | 20               | 62             | 231            | --                                     | --  |
| 2004 | South of Cape Mendocino, CA           | Summer | 0-125                | 69                                | 187   | 8                | 35             | 107            | 2                                      | 2   |
| 2004 | South of Cape Mendocino, CA           | Summer | 125-250              | 109                               | 600   | 13               | 29             | 90             | --                                     | --  |
| 2004 | South of Cape Mendocino, CA           | Summer | 250+                 | 308                               | 1415  | 17               | 51             | 179            | --                                     | --  |
| 2005 | North of Cape Falcon, OR              | Winter | 0-125                | 122                               | 519   | 7                | 41             | 187            | 1                                      | 1   |
| 2005 | North of Cape Falcon, OR              | Winter | 125-250              | 271                               | 1463  | 14               | 37             | 138            | 17                                     | 12  |
| 2005 | North of Cape Falcon, OR              | Winter | 250+                 | 379                               | 1432  | 16               | 42             | 175            | --                                     | --  |
| 2005 | North of Cape Falcon, OR              | Summer | 0-125                | 1016                              | 4503  | 23               | 113            | 1166           | --                                     | --  |
| 2005 | North of Cape Falcon, OR              | Summer | 125-250              | 85                                | 317   | 12               | 25             | 85             | --                                     | --  |
| 2005 | North of Cape Falcon, OR              | Summer | 250+                 | 60                                | 245   | 10               | 19             | 71             | --                                     | --  |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                                 | 56    | *                | *              | *              | *                                      | *   |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 251                               | 864   | 18               | 46             | 148            | 11                                     | 7   |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 227                               | 928   | 20               | 42             | 122            | --                                     | --  |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 171                               | 960   | 11               | 41             | 267            | --                                     | --  |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 78                                | 335   | 13               | 24             | 71             | 1                                      | 1   |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 250+                 | 108                               | 625   | 17               | 28             | 102            | --                                     | --  |
| 2005 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-125                | --                                | @     | --               | --             | --             | --                                     | --  |
| 2005 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 89                                | 592   | 8                | 18             | 45             | 2                                      | 4   |

Table 1 (continued). Observed vessels, trips, hauls, catch, and salmon interactions, as well as total fleet landings, for the LE trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Observed Groundfish Landings (mt) | Fleet | Observed Vessels | Observed Trips | Observed Hauls | Observed Hauls that Encountered Salmon | Percent of Observed Hauls that Encountered Salmon |
|------|---------------------------------------|--------|----------------------|-----------------------------------|-------|------------------|----------------|----------------|--|---|
| 2005 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 171                               | 860   | 13               | 27             | 73             | --                                     | --  |
| 2005 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 79                                | 480   | 6                | 18             | 84             | 2                                      | 2   |
| 2005 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 125-250              | 36                                | 283   | 6                | 10             | 18             | --                                     | --  |
| 2005 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 250+                 | 208                               | 891   | 12               | 28             | 102            | --                                     | --  |
| 2005 | South of Cape Mendocino, CA           | Winter | 0-125                | 5                                 | 50    | 3                | 9              | 21             | --                                     | --  |
| 2005 | South of Cape Mendocino, CA           | Winter | 125-250              | 108                               | 383   | 11               | 26             | 77             | --                                     | --  |
| 2005 | South of Cape Mendocino, CA           | Winter | 250+                 | 218                               | 962   | 13               | 35             | 122            | --                                     | --  |
| 2005 | South of Cape Mendocino, CA           | Summer | 0-125                | 86                                | 336   | 5                | 51             | 204            | 1                                      | 0   |
| 2005 | South of Cape Mendocino, CA           | Summer | 125-250              | 52                                | 315   | 9                | 19             | 40             | --                                     | --  |
| 2005 | South of Cape Mendocino, CA           | Summer | 250+                 | 195                               | 1011  | 11               | 29             | 123            | --                                     | --  |
| 2006 | North of Cape Falcon, OR              | Winter | 0-125                | 55                                | 212   | 6                | 28             | 151            | 2                                      | 1   |
| 2006 | North of Cape Falcon, OR              | Winter | 125-250              | 174                               | 1106  | 11               | 28             | 103            | 2                                      | 2   |
| 2006 | North of Cape Falcon, OR              | Winter | 250+                 | 211                               | 1256  | 12               | 29             | 106            | --                                     | --  |
| 2006 | North of Cape Falcon, OR              | Summer | 0-125                | 611                               | 3928  | 18               | 115            | 966            | 1                                      | 0   |
| 2006 | North of Cape Falcon, OR              | Summer | 125-250              | 101                               | 525   | 11               | 20             | 55             | --                                     | --  |
| 2006 | North of Cape Falcon, OR              | Summer | 250+                 | 65                                | 316   | 9                | 13             | 65             | --                                     | --  |
| 2006 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                                 | 5     | *                | *              | *              | *                                      | *   |
| 2006 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 247                               | 926   | 16               | 48             | 180            | 1                                      | 1   |
| 2006 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 185                               | 734   | 16               | 37             | 91             | --                                     | --  |
| 2006 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 191                               | 898   | 14               | 41             | 285            | --                                     | --  |
| 2006 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 74                                | 399   | 12               | 18             | 61             | --                                     | --  |
| 2006 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 250+                 | 207                               | 903   | 17               | 30             | 121            | --                                     | --  |
| 2006 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-125                | --                                | @     | --               | --             | --             | --                                     | --  |
| 2006 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 151                               | 644   | 7                | 23             | 85             | 2                                      | 2   |
| 2006 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 139                               | 633   | 8                | 26             | 63             | --                                     | --  |
| 2006 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 66                                | 540   | 3                | 12             | 73             | --                                     | --  |
| 2006 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 125-250              | 34                                | 152   | 5                | 7              | 11             | --                                     | --  |
| 2006 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 250+                 | 284                               | 1170  | 11               | 35             | 137            | --                                     | --  |
| 2006 | South of Cape Mendocino, CA           | Winter | 0-125                | *                                 | 46    | *                | *              | *              | *                                      | *   |

Table 1 (continued). Observed vessels, trips, hauls, catch, and salmon interactions, as well as total fleet landings, for the LE trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Observed Groundfish Landings (mt) | Fleet | Observed Vessels | Observed Trips | Observed Hauls | Observed Hauls that Encountered Salmon | Percent of Observed Hauls that Encountered Salmon |
|------|---------------------------------------|--------|----------------------|-----------------------------------|-------|------------------|----------------|----------------|--|---|
| 2006 | South of Cape Mendocino, CA           | Winter | 125-250              | 27                                | 323   | 4                | 11             | 25             | --                                     | --  |
| 2006 | South of Cape Mendocino, CA           | Winter | 250+                 | 56                                | 583   | 5                | 10             | 36             | --                                     | --  |
| 2006 | South of Cape Mendocino, CA           | Summer | 0-125                | 61                                | 256   | 5                | 48             | 175            | --                                     | --  |
| 2006 | South of Cape Mendocino, CA           | Summer | 125-250              | 74                                | 271   | 8                | 32             | 82             | --                                     | --  |
| 2006 | South of Cape Mendocino, CA           | Summer | 250+                 | 226                               | 923   | 11               | 40             | 134            | --                                     | --  |
| 2007 | North of Cape Falcon, OR              | Winter | 0-125                | 9                                 | 95    | 3                | 5              | 33             | --                                     | --  |
| 2007 | North of Cape Falcon, OR              | Winter | 125-250              | 244                               | 1585  | 13               | 31             | 116            | 6                                      | 5   |
| 2007 | North of Cape Falcon, OR              | Winter | 250+                 | 224                               | 1802  | 13               | 30             | 140            | --                                     | --  |
| 2007 | North of Cape Falcon, OR              | Summer | 0-125                | 221                               | 1786  | 10               | 45             | 433            | 3                                      | 1   |
| 2007 | North of Cape Falcon, OR              | Summer | 125-250              | 210                               | 1466  | 13               | 32             | 156            | --                                     | --  |
| 2007 | North of Cape Falcon, OR              | Summer | 250+                 | 123                               | 820   | 13               | 32             | 129            | --                                     | --  |
| 2007 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                                 | 16    | *                | *              | *              | *                                      | *   |
| 2007 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 183                               | 1053  | 16               | 33             | 106            | 2                                      | 2   |
| 2007 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 262                               | 1420  | 18               | 39             | 147            | 1                                      | 1   |
| 2007 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 79                                | 478   | 4                | 16             | 108            | --                                     | --  |
| 2007 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 211                               | 1172  | 24               | 40             | 138            | --                                     | --  |
| 2007 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 250+                 | 237                               | 807   | 22               | 44             | 171            | --                                     | --  |
| 2007 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-125                | --                                | 19    | --               | --             | --             | --                                     | --  |
| 2007 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 85                                | 656   | 9                | 24             | 66             | 1                                      | 2   |
| 2007 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 178                               | 1368  | 7                | 20             | 72             | --                                     | --  |
| 2007 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | *                                 | 421   | *                | *              | *              | *                                      | *   |
| 2007 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 125-250              | 166                               | 838   | 12               | 28             | 60             | 1                                      | 2   |
| 2007 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 250+                 | 290                               | 1192  | 15               | 43             | 147            | --                                     | --  |
| 2007 | South of Cape Mendocino, CA           | Winter | 0-125                | *                                 | 45    | *                | *              | *              | *                                      | *   |
| 2007 | South of Cape Mendocino, CA           | Winter | 125-250              | 92                                | 474   | 5                | 23             | 68             | --                                     | --  |
| 2007 | South of Cape Mendocino, CA           | Winter | 250+                 | 150                               | 408   | 5                | 21             | 75             | --                                     | --  |
| 2007 | South of Cape Mendocino, CA           | Summer | 0-125                | 81                                | 390   | 7                | 37             | 137            | --                                     | --  |
| 2007 | South of Cape Mendocino, CA           | Summer | 125-250              | 102                               | 525   | 9                | 30             | 75             | --                                     | --  |
| 2007 | South of Cape Mendocino, CA           | Summer | 250+                 | 109                               | 740   | 11               | 33             | 84             | --                                     | --  |

Table 1 (continued). Observed vessels, trips, hauls, catch, and salmon interactions, as well as total fleet landings, for the LE trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Observed Groundfish Landings (mt) | Fleet | Observed Vessels | Observed Trips | Observed Hauls | Observed Hauls that Encountered Salmon | Percent of Observed Hauls that Encountered Salmon |
|------|---------------------------------------|--------|----------------------|-----------------------------------|-------|------------------|----------------|----------------|--|---|
| 2008 | North of Cape Falcon, OR              | Winter | 0-125                | --                                | 60    | --               | --             | --             | --                                     | --  |
| 2008 | North of Cape Falcon, OR              | Winter | 125-250              | 302                               | 1936  | 12               | 38             | 153            | 6                                      | 4   |
| 2008 | North of Cape Falcon, OR              | Winter | 250+                 | 440                               | 2560  | 13               | 41             | 213            | --                                     | --  |
| 2008 | North of Cape Falcon, OR              | Summer | 0-125                | 196                               | 936   | 8                | 30             | 331            | --                                     | --  |
| 2008 | North of Cape Falcon, OR              | Summer | 125-250              | 478                               | 1994  | 21               | 47             | 229            | --                                     | --  |
| 2008 | North of Cape Falcon, OR              | Summer | 250+                 | 376                               | 1566  | 21               | 54             | 303            | --                                     | --  |
| 2008 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                                 | @     | *                | *              | *              | *                                      | *   |
| 2008 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 246                               | 1246  | 17               | 44             | 154            | 9                                      | 6   |
| 2008 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 316                               | 1796  | 17               | 44             | 160            | --                                     | --  |
| 2008 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 35                                | 302   | 6                | 18             | 112            | --                                     | --  |
| 2008 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 449                               | 1489  | 29               | 82             | 349            | --                                     | --  |
| 2008 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 250+                 | 308                               | 1341  | 30               | 69             | 242            | --                                     | --  |
| 2008 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-125                | *                                 | 28    | *                | *              | *              | *                                      | *   |
| 2008 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 157                               | 874   | 10               | 37             | 100            | 9                                      | 9   |
| 2008 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 300                               | 1733  | 12               | 53             | 158            | --                                     | --  |
| 2008 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | --                                | 155   | --               | --             | --             | --                                     | --  |
| 2008 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 125-250              | 249                               | 753   | 17               | 37             | 85             | --                                     | --  |
| 2008 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 250+                 | 339                               | 1258  | 18               | 42             | 153            | --                                     | --  |
| 2008 | South of Cape Mendocino, CA           | Winter | 0-125                | *                                 | 94    | *                | *              | *              | *                                      | *   |
| 2008 | South of Cape Mendocino, CA           | Winter | 125-250              | 35                                | 516   | 5                | 16             | 40             | --                                     | --  |
| 2008 | South of Cape Mendocino, CA           | Winter | 250+                 | 91                                | 543   | 8                | 22             | 65             | --                                     | --  |
| 2008 | South of Cape Mendocino, CA           | Summer | 0-125                | 102                               | 319   | 11               | 46             | 208            | 1                                      | 0   |
| 2008 | South of Cape Mendocino, CA           | Summer | 125-250              | 76                                | 500   | 11               | 22             | 55             | --                                     | --  |
| 2008 | South of Cape Mendocino, CA           | Summer | 250+                 | 154                               | 917   | 9                | 22             | 83             | --                                     | --  |
| 2009 | North of Cape Falcon, OR              | Winter | 0-125                | 35                                | 132   | 6                | 11             | 77             | 6                                      | 8   |
| 2009 | North of Cape Falcon, OR              | Winter | 125-250              | 568                               | 2773  | 18               | 57             | 222            | 2                                      | 1   |
| 2009 | North of Cape Falcon, OR              | Winter | 250+                 | 605                               | 2832  | 21               | 71             | 323            | --                                     | --  |
| 2009 | North of Cape Falcon, OR              | Summer | 0-125                | 478                               | 1793  | 10               | 53             | 672            | --                                     | --  |
| 2009 | North of Cape Falcon, OR              | Summer | 125-250              | 314                               | 2018  | 13               | 41             | 143            | --                                     | --  |

Table 1 (continued). Observed vessels, trips, hauls, catch, and salmon interactions, as well as total fleet landings, for the LE trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Observed Groundfish Landings (mt) | Fleet | Observed Vessels | Observed Trips | Observed Hauls | Observed Hauls that Encountered Salmon | Percent of Observed Hauls that Encountered Salmon |
|------|---------------------------------------|--------|----------------------|-----------------------------------|-------|------------------|----------------|----------------|--|---|
| 2009 | North of Cape Falcon, OR              | Summer | 250+                 | 278                               | 1253  | 13               | 42             | 243            | --                                     | --  |
| 2009 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                                 | 16    | *                | *              | *              | *                                      | *   |
| 2009 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 367                               | 1329  | 41               | 93             | 258            | 7                                      | 3   |
| 2009 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 771                               | 2585  | 39               | 117            | 479            | --                                     | --  |
| 2009 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 173                               | 766   | 10               | 41             | 313            | --                                     | --  |
| 2009 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 338                               | 1168  | 21               | 58             | 257            | --                                     | --  |
| 2009 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 250+                 | 411                               | 1379  | 25               | 72             | 301            | --                                     | --  |
| 2009 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-125                | --                                | 14    | --               | --             | --             | --                                     | --  |
| 2009 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 93                                | 608   | 11               | 28             | 58             | 4                                      | 7   |
| 2009 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 389                               | 1518  | 16               | 57             | 217            | 1                                      | 0   |
| 2009 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | *                                 | 136   | *                | *              | *              | *                                      | *   |
| 2009 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 125-250              | 126                               | 865   | 11               | 32             | 76             | --                                     | --  |
| 2009 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 250+                 | 353                               | 1707  | 16               | 48             | 183            | --                                     | --  |
| 2009 | South of Cape Mendocino, CA           | Winter | 0-125                | 6                                 | 72    | 4                | 5              | 16             | 1                                      | 6   |
| 2009 | South of Cape Mendocino, CA           | Winter | 125-250              | 65                                | 498   | 8                | 19             | 64             | --                                     | --  |
| 2009 | South of Cape Mendocino, CA           | Winter | 250+                 | 157                               | 641   | 10               | 29             | 117            | --                                     | --  |
| 2009 | South of Cape Mendocino, CA           | Summer | 0-125                | 78                                | 189   | 9                | 38             | 156            | 9                                      | 6   |
| 2009 | South of Cape Mendocino, CA           | Summer | 125-250              | 140                               | 476   | 8                | 43             | 106            | --                                     | --  |
| 2009 | South of Cape Mendocino, CA           | Summer | 250+                 | 169                               | 819   | 8                | 40             | 120            | --                                     | --  |
| 2010 | North of Cape Falcon, OR              | Winter | 0-125                | --                                | 77    | --               | --             | --             | --                                     | --  |
| 2010 | North of Cape Falcon, OR              | Winter | 125-250              | 269                               | 1989  | 12               | 27             | 78             | --                                     | --  |
| 2010 | North of Cape Falcon, OR              | Winter | 250+                 | 398                               | 2625  | 12               | 36             | 196            | --                                     | --  |
| 2010 | North of Cape Falcon, OR              | Summer | 0-125                | 215                               | 1223  | 8                | 25             | 246            | --                                     | --  |
| 2010 | North of Cape Falcon, OR              | Summer | 125-250              | 421                               | 2150  | 11               | 34             | 152            | --                                     | --  |
| 2010 | North of Cape Falcon, OR              | Summer | 250+                 | 344                               | 1249  | 15               | 43             | 276            | --                                     | --  |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | --                                | 9     | --               | --             | --             | --                                     | --  |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 138                               | 1252  | 15               | 33             | 82             | 3                                      | 4   |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 338                               | 2175  | 18               | 42             | 220            | 1                                      | 0   |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 82                                | 317   | 5                | 26             | 171            | --                                     | --  |

Table 1 (continued). Observed vessels, trips, hauls, catch, and salmon interactions, as well as total fleet landings, for the LE trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Observed Groundfish Landings (mt) | Fleet | Observed Vessels | Observed Trips | Observed Hauls | Observed Hauls that Encountered Salmon | Percent of Observed Hauls that Encountered Salmon |
|------|---------------------------------------|--------|----------------------|-----------------------------------|-------|------------------|----------------|----------------|--|---|
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 258                               | 1059  | 22               | 46             | 153            | --                                     | --  |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 250+                 | 388                               | 1509  | 27               | 64             | 318            | --                                     | --  |
| 2010 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-125                | --                                | @     | --               | --             | --             | --                                     | --  |
| 2010 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | *                                 | 365   | *                | *              | *              | *                                      | *   |
| 2010 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 138                               | 1384  | 7                | 18             | 72             | --                                     | --  |
| 2010 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | *                                 | 12    | *                | *              | *              | *                                      | *   |
| 2010 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 125-250              | 201                               | 817   | 17               | 40             | 64             | --                                     | --  |
| 2010 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 250+                 | 464                               | 1440  | 20               | 58             | 225            | --                                     | --  |
| 2010 | South of Cape Mendocino, CA           | Winter | 0-125                | 28                                | 99    | 3                | 15             | 69             | --                                     | --  |
| 2010 | South of Cape Mendocino, CA           | Winter | 125-250              | *                                 | 214   | *                | *              | *              | *                                      | *   |
| 2010 | South of Cape Mendocino, CA           | Winter | 250+                 | 41                                | 616   | 4                | 11             | 34             | --                                     | --  |
| 2010 | South of Cape Mendocino, CA           | Summer | 0-125                | 32                                | 248   | 6                | 17             | 62             | --                                     | --  |
| 2010 | South of Cape Mendocino, CA           | Summer | 125-250              | 52                                | 325   | 8                | 24             | 60             | --                                     | --  |
| 2010 | South of Cape Mendocino, CA           | Summer | 250+                 | 191                               | 979   | 8                | 31             | 120            | --                                     | --  |



Table 2a. Observed and expanded Chinook salmon bycatch in the LE trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Observed Groundfish Catch (mt) | Fleet Groundfish Landings (mt) | Observed Chinook Count (Individuals) | Observed Bycatch Chinook Ratio | Observed Bycatch Chinook Ratio SE | Expanded Chinook Catch (Individuals) | Observed Chinook Weight (mt) | Observed Bycatch Chinook Weight Ratio | Observed Bycatch Chinook Weight Ratio SE | Expanded Chinook Catch Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|--------------------------------|--------------------------------------|--------------------------------|-----------------------------------|--------------------------------------|------------------------------|---------------------------------------|--|------------------------------------|
| 2002 | North of Cape Falcon, OR              | Winter | 0-125                | 150                            | 905                            | 137                                  | 0.9115                         | 0.1405                            | 825                                  | 0.25                         | 0.0017                                | 0.0003                                   | 1.54                               |
| 2002 | North of Cape Falcon, OR              | Winter | 125-250              | 235                            | 994                            | 74                                   | 0.3145                         | 0.1002                            | 313                                  | 0.14                         | 0.0006                                | 0.0002                                   | 0.58                               |
| 2002 | North of Cape Falcon, OR              | Winter | 250+                 | 170                            | 917                            | 5                                    | 0.0294                         | 0.0103                            | 27                                   | 0.01                         | 0.0000                                | 0.0000                                   | 0.03                               |
| 2002 | North of Cape Falcon, OR              | Summer | 0-125                | 403                            | 2326                           | 116                                  | 0.2880                         | 0.0415                            | 670                                  | 0.28                         | 0.0007                                | 0.0001                                   | 1.62                               |
| 2002 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | 39                             | 345                            | 141                                  | 3.5744                         | 1.5171                            | 1233                                 | 0.28                         | 0.0070                                | 0.0030                                   | 2.40                               |
| 2002 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 65                             | 717                            | 544                                  | 8.3368                         | 5.0454                            | 5979                                 | 0.87                         | 0.0133                                | 0.0078                                   | 9.56                               |
| 2002 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 104                            | 837                            | 7                                    | 0.0676                         | 0.0103                            | 57                                   | 0.02                         | 0.0001                                | 0.0000                                   | 0.12                               |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-125                | 21                             | 233                            | 181                                  | 8.4977                         | 4.1606                            | 1981                                 | 0.30                         | 0.0139                                | 0.0066                                   | 3.24                               |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 30                             | 430                            | 194                                  | 6.4031                         | 3.7182                            | 2755                                 | 0.29                         | 0.0097                                | 0.0050                                   | 4.16                               |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 196                            | 1292                           | 6                                    | 0.0307                         | 0.0027                            | 40                                   | 0.01                         | 0.0001                                | 0.0000                                   | 0.07                               |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 61                             | 727                            | 106                                  | 1.7323                         | 0.6386                            | 1259                                 | 0.16                         | 0.0026                                | 0.0008                                   | 1.92                               |
| 2002 | South of Cape Mendocino, CA           | Winter | 0-125                | 69                             | 491                            | 21                                   | 0.3036                         | 0.1062                            | 149                                  | 0.07                         | 0.0010                                | 0.0003                                   | 0.49                               |
| 2002 | South of Cape Mendocino, CA           | Winter | 125-250              | 81                             | 580                            | 2                                    | 0.0247                         | 0.0061                            | 14                                   | 0.01                         | 0.0001                                | 0.0000                                   | 0.04                               |
| 2002 | South of Cape Mendocino, CA           | Summer | 0-125                | 17                             | 265                            | 3                                    | 0.1815                         | 0.0735                            | 48                                   | 0.00                         | 0.0002                                | 0.0001                                   | 0.05                               |
| 2002 | South of Cape Mendocino, CA           | Summer | 125-250              | 109                            | 626                            | 6                                    | 0.0551                         | 0.0245                            | 34                                   | 0.01                         | 0.0001                                | 0.0000                                   | 0.06                               |
| 2003 | North of Cape Falcon, OR              | Winter | 0-125                | 162                            | 1075                           | 98                                   | 0.6043                         | 0.1134                            | 650                                  | 0.23                         | 0.0014                                | 0.0003                                   | 1.51                               |
| 2003 | North of Cape Falcon, OR              | Winter | 125-250              | 85                             | 971                            | 29                                   | 0.3404                         | 0.1187                            | 331                                  | 0.09                         | 0.0010                                | 0.0004                                   | 1.00                               |
| 2003 | North of Cape Falcon, OR              | Summer | 0-125                | 65                             | 1434                           | 121                                  | 1.8746                         | 0.7594                            | 2687                                 | 0.19                         | 0.0029                                | 0.0012                                   | 4.21                               |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | 61                             | 380                            | 1234                                 | 20.1721                        | 7.5333                            | 7660                                 | 2.15                         | 0.0351                                | 0.0125                                   | 13.31                              |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 146                            | 764                            | 569                                  | 3.9073                         | 1.6996                            | 2986                                 | 1.03                         | 0.0071                                | 0.0033                                   | 5.42                               |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 193                            | 841                            | 8                                    | 0.0414                         | 0.0048                            | 35                                   | 0.02                         | 0.0001                                | 0.0000                                   | 0.07                               |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | *                              | 503                            | *                                    | 0.1856                         | 0.0003                            | 93                                   | *                            | 0.0004                                | 0.0000                                   | 0.19                               |
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-125                | 29                             | 146                            | 146                                  | 5.0112                         | 1.7649                            | 730                                  | 0.27                         | 0.0094                                | 0.0035                                   | 1.37                               |
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 41                             | 279                            | 184                                  | 4.4694                         | 2.3028                            | 1249                                 | 0.29                         | 0.0071                                | 0.0035                                   | 1.99                               |
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 18                             | 190                            | 23                                   | 1.2920                         | 0.6285                            | 246                                  | 0.03                         | 0.0017                                | 0.0007                                   | 0.33                               |
| 2003 | South of Cape Mendocino, CA           | Winter | 0-125                | *                              | 205                            | *                                    | 0.2302                         | 0.0001                            | 47                                   | *                            | 0.0008                                | 0.0000                                   | 0.16                               |
| 2003 | South of Cape Mendocino, CA           | Summer | 0-125                | 49                             | 350                            | 20                                   | 0.4083                         | 0.1265                            | 143                                  | 0.04                         | 0.0008                                | 0.0002                                   | 0.29                               |
| 2003 | South of Cape Mendocino, CA           | Summer | 125-250              | 49                             | 350                            | --                                   | --                             | --                                | --                                   | --                           | --                                    | --                                       | --                                 |
| 2004 | North of Cape Falcon, OR              | Winter | 0-125                | 134                            | 309                            | 146                                  | 1.0910                         | 0.2908                            | 337                                  | 0.23                         | 0.0017                                | 0.0003                                   | 0.53                               |

Table 2a (continued). Observed and expanded Chinook salmon bycatch in the LE trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Observed Groundfish Catch (mt) | Fleet Groundfish Landings (mt) | Observed Chinook Count (Individuals) | Observed Bycatch Chinook Ratio | Observed Bycatch Chinook Ratio SE | Expanded Chinook Catch (Individuals) | Observed Chinook Weight (mt) | Observed Bycatch Chinook Weight Ratio | Observed Bycatch Chinook Weight Ratio SE | Expanded Chinook Catch Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|--------------------------------|--------------------------------------|--------------------------------|-----------------------------------|--------------------------------------|------------------------------|---------------------------------------|--|------------------------------------|
| 2004 | North of Cape Falcon, OR              | Winter | 125-250              | 355                            | 1457                           | 36                                   | 0.1015                         | 0.0198                            | 148                                  | 0.09                         | 0.0003                                | 0.0001                                   | 0.39                               |
| 2004 | North of Cape Falcon, OR              | Winter | 250+                 | 397                            | 1355                           | 2                                    | 0.0050                         | 0.0005                            | 7                                    | 0.00                         | 0.0000                                | 0.0000                                   | 0.01                               |
| 2004 | North of Cape Falcon, OR              | Summer | 0-125                | 419                            | 2785                           | 33                                   | 0.0790                         | 0.0132                            | 220                                  | 0.10                         | 0.0002                                | 0.0001                                   | 0.69                               |
| 2004 | North of Cape Falcon, OR              | Summer | 125-250              | 153                            | 805                            | 1                                    | 0.0065                         | 0.0011                            | 5                                    | 0.00                         | 0.0000                                | 0.0000                                   | 0.00                               |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | 8                              | 8                              | 7                                    | 0.8707                         | 0.3131                            | 7                                    | 0.01                         | 0.0008                                | 0.0003                                   | 0.01                               |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 227                            | 751                            | 94                                   | 0.4141                         | 0.1086                            | 311                                  | 0.18                         | 0.0008                                | 0.0002                                   | 0.61                               |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 285                            | 1147                           | 1                                    | 0.0035                         | 0.0004                            | 4                                    | 0.00                         | 0.0000                                | 0.0000                                   | 0.01                               |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 34                             | 443                            | 36                                   | 1.0690                         | 0.7511                            | 474                                  | 0.07                         | 0.0020                                | 0.0012                                   | 0.91                               |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-125                | *                              | 5                              | *                                    | 3.6290                         | 0.0060                            | 20                                   | *                            | 0.0067                                | 0.0000                                   | 0.04                               |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 109                            | 274                            | 80                                   | 0.7349                         | 0.2520                            | 201                                  | 0.17                         | 0.0015                                | 0.0005                                   | 0.42                               |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 233                            | 647                            | 1                                    | 0.0043                         | 0.0005                            | 3                                    | 0.01                         | 0.0000                                | 0.0000                                   | 0.01                               |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 70                             | 395                            | 3                                    | 0.0427                         | 0.0066                            | 17                                   | 0.01                         | 0.0001                                | 0.0000                                   | 0.04                               |
| 2004 | South of Cape Mendocino, CA           | Winter | 125-250              | 87                             | 365                            | 2                                    | 0.0229                         | 0.0031                            | 8                                    | 0.01                         | 0.0001                                | 0.0000                                   | 0.03                               |
| 2004 | South of Cape Mendocino, CA           | Summer | 0-125                | 69                             | 187                            | 4                                    | 0.0577                         | 0.0067                            | 11                                   | 0.01                         | 0.0002                                | 0.0000                                   | 0.04                               |
| 2005 | North of Cape Falcon, OR              | Winter | 0-125                | 122                            | 519                            | 1                                    | 0.0082                         | 0.0008                            | 4                                    | 0.00                         | 0.0000                                | 0.0000                                   | 0.00                               |
| 2005 | North of Cape Falcon, OR              | Winter | 125-250              | 271                            | 1463                           | 108                                  | 0.3979                         | 0.1298                            | 582                                  | 0.20                         | 0.0007                                | 0.0002                                   | 1.08                               |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                              | 56                             | *                                    | 0.1982                         | 0.0002                            | 11                                   | *                            | 0.0004                                | 0.0000                                   | 0.02                               |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 251                            | 864                            | 28                                   | 0.1114                         | 0.0311                            | 96                                   | 0.06                         | 0.0002                                | 0.0001                                   | 0.21                               |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 78                             | 335                            | 3                                    | 0.0383                         | 0.0058                            | 13                                   | 0.01                         | 0.0001                                | 0.0000                                   | 0.03                               |
| 2005 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 89                             | 592                            | 14                                   | 0.1579                         | 0.0330                            | 93                                   | 0.04                         | 0.0004                                | 0.0001                                   | 0.24                               |
| 2005 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 79                             | 480                            | 2                                    | 0.0255                         | 0.0037                            | 12                                   | 0.01                         | 0.0001                                | 0.0000                                   | 0.03                               |
| 2005 | South of Cape Mendocino, CA           | Summer | 0-125                | 86                             | 336                            | 1                                    | 0.0116                         | 0.0011                            | 4                                    | 0.00                         | 0.0000                                | 0.0000                                   | 0.01                               |
| 2006 | North of Cape Falcon, OR              | Winter | 0-125                | 55                             | 212                            | 2                                    | 0.0365                         | 0.0045                            | 8                                    | 0.00                         | 0.0001                                | 0.0000                                   | 0.01                               |
| 2006 | North of Cape Falcon, OR              | Winter | 125-250              | 174                            | 1106                           | 5                                    | 0.0311                         | 0.0095                            | 34                                   | 0.01                         | 0.0000                                | 0.0000                                   | 0.04                               |
| 2006 | North of Cape Falcon, OR              | Summer | 0-125                | 611                            | 3928                           | 1                                    | 0.0016                         | 0.0001                            | 6                                    | 0.00                         | 0.0000                                | 0.0000                                   | 0.01                               |
| 2006 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                              | 5                              | *                                    | 0.1280                         | 0.0000                            | 1                                    | *                            | 0.0004                                | 0.0000                                   | 0.00                               |
| 2006 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 247                            | 926                            | 1                                    | 0.0040                         | 0.0004                            | 4                                    | 0.00                         | 0.0000                                | 0.0000                                   | 0.02                               |
| 2006 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 151                            | 644                            | 2                                    | 0.0133                         | 0.0018                            | 9                                    | 0.00                         | 0.0000                                | 0.0000                                   | 0.02                               |
| 2007 | North of Cape Falcon, OR              | Winter | 125-250              | 244                            | 1585                           | 12                                   | 0.0493                         | 0.0191                            | 78                                   | 0.02                         | 0.0001                                | 0.0000                                   | 0.13                               |

Table 2a (continued). Observed and expanded Chinook salmon bycatch in the LE trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Observed Groundfish Catch (mt) | Fleet Groundfish Landings (mt) | Observed Chinook Count (Individuals) | Observed Bycatch Chinook Ratio | Observed Bycatch Chinook Ratio SE | Expanded Chinook Catch (Individuals) | Observed Chinook Weight (mt) | Observed Bycatch Chinook Weight Ratio | Observed Bycatch Chinook Weight Ratio SE | Expanded Chinook Catch Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|--------------------------------|--------------------------------------|--------------------------------|-----------------------------------|--------------------------------------|------------------------------|---------------------------------------|--|------------------------------------|
| 2007 | North of Cape Falcon, OR              | Summer | 0-125                | 221                            | 1786                           | 6                                    | 0.0271                         | 0.0066                            | 48                                   | 0.01                         | 0.0001                                | 0.0000                                   | 0.10                               |
| 2007 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 183                            | 1053                           | 8                                    | 0.0437                         | 0.0054                            | 46                                   | 0.02                         | 0.0001                                | 0.0000                                   | 0.09                               |
| 2007 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 262                            | 1420                           | 1                                    | 0.0038                         | 0.0004                            | 5                                    | 0.00                         | 0.0000                                | 0.0000                                   | 0.02                               |
| 2007 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 85                             | 656                            | 1                                    | 0.0118                         | 0.0018                            | 8                                    | 0.00                         | 0.0000                                | 0.0000                                   | 0.01                               |
| 2007 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 125-250              | 166                            | 838                            | 1                                    | 0.0060                         | 0.0009                            | 5                                    | 0.00                         | 0.0000                                | 0.0000                                   | 0.01                               |
| 2008 | North of Cape Falcon, OR              | Winter | 0-125                | --                             | 60                             | --                                   | 1.7128                         | 0.0020                            | 102                                  | --                           | 0.0010                                | 0.0000                                   | 0.06                               |
| 2008 | North of Cape Falcon, OR              | Winter | 125-250              | 302                            | 1936                           | 11                                   | 0.0364                         | 0.0096                            | 71                                   | 0.02                         | 0.0001                                | 0.0000                                   | 0.14                               |
| 2008 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                              | 2                              | *                                    | 0.1356                         | 0.0002                            | 0                                    | *                            | 0.0003                                | 0.0000                                   | 0.00                               |
| 2008 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 246                            | 1246                           | 24                                   | 0.0975                         | 0.0283                            | 122                                  | 0.05                         | 0.0002                                | 0.0001                                   | 0.26                               |
| 2008 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 157                            | 874                            | 20                                   | 0.1273                         | 0.0398                            | 111                                  | 0.04                         | 0.0003                                | 0.0001                                   | 0.22                               |
| 2008 | South of Cape Mendocino, CA           | Winter | 0-125                | *                              | 94                             | *                                    | 0.0124                         | 0.0001                            | 1                                    | *                            | 0.0000                                | 0.0000                                   | 0.00                               |
| 2008 | South of Cape Mendocino, CA           | Summer | 0-125                | 102                            | 319                            | 4                                    | 0.0392                         | 0.0039                            | 13                                   | 0.01                         | 0.0001                                | 0.0000                                   | 0.02                               |
| 2009 | North of Cape Falcon, OR              | Winter | 0-125                | 35                             | 132                            | 39                                   | 1.1283                         | 0.4808                            | 149                                  | 0.02                         | 0.0006                                | 0.0002                                   | 0.09                               |
| 2009 | North of Cape Falcon, OR              | Winter | 125-250              | 568                            | 2773                           | 2                                    | 0.0035                         | 0.0003                            | 10                                   | 0.00                         | 0.0000                                | 0.0000                                   | 0.02                               |
| 2009 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                              | 16                             | *                                    | 0.1508                         | 0.0003                            | 2                                    | *                            | 0.0003                                | 0.0000                                   | 0.00                               |
| 2009 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 367                            | 1329                           | 14                                   | 0.0381                         | 0.0106                            | 51                                   | 0.04                         | 0.0001                                | 0.0000                                   | 0.14                               |
| 2009 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 93                             | 608                            | 5                                    | 0.0539                         | 0.0127                            | 33                                   | 0.01                         | 0.0001                                | 0.0000                                   | 0.06                               |
| 2009 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 389                            | 1518                           | 2                                    | 0.0051                         | 0.0005                            | 8                                    | 0.00                         | 0.0000                                | 0.0000                                   | 0.01                               |
| 2009 | South of Cape Mendocino, CA           | Winter | 0-125                | 6                              | 72                             | 1                                    | 0.1657                         | 0.0972                            | 12                                   | 0.00                         | 0.0006                                | 0.0003                                   | 0.04                               |
| 2009 | South of Cape Mendocino, CA           | Summer | 0-125                | 78                             | 189                            | 18                                   | 0.2303                         | 0.0850                            | 44                                   | 0.04                         | 0.0005                                | 0.0002                                   | 0.10                               |
| 2010 | North of Cape Falcon, OR              | Winter | 0-125                | --                             | 77                             | --                                   | 2.3693                         | 0.0024                            | 182                                  | --                           | 0.0014                                | 0.0000                                   | 0.10                               |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | --                             | 9                              | --                                   | 0.1285                         | 0.0004                            | 1                                    | --                           | 0.0002                                | 0.0000                                   | 0.00                               |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 138                            | 1252                           | 4                                    | 0.0290                         | 0.0071                            | 36                                   | 0.01                         | 0.0001                                | 0.0000                                   | 0.09                               |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 338                            | 2175                           | --                                   | --                             | --                                | --                                   | --                           | --                                    | --                                       | --                                 |
| 2010 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | *                              | 365                            | *                                    | 0.0461                         | 0.0000                            | 17                                   | *                            | 0.0001                                | 0.0000                                   | 0.04                               |

Table 2b. Observed and expanded chum salmon bycatch in the LE trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Observed Groundfish Catch (mt) | Fleet Groundfish Landings (mt) | Observed Chum Count (Individuals) | Observed Bycatch Chum Ratio | Observed Bycatch Chum Ratio SE | Expanded Chum Catch (Individuals) | Observed Chum Weight (mt) | Observed Bycatch Chum Weight Ratio | Observed Bycatch Chum Weight Ratio SE | Expanded Chum Catch Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|--------------------------------|-----------------------------------|-----------------------------|--------------------------------|-----------------------------------|---------------------------|------------------------------------|---------------------------------------|---------------------------------|
| 2002 | North of Cape Falcon, OR              | Winter | 0-125                | 150                            | 905                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | North of Cape Falcon, OR              | Winter | 125-250              | 235                            | 994                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | North of Cape Falcon, OR              | Winter | 250+                 | 170                            | 917                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | North of Cape Falcon, OR              | Summer | 0-125                | 403                            | 2326                           | 1                                 | 0.0025                      | 0.0001                         | 6                                 | 0.00                      | 0.0000                             | 0.0000                                | 0.02                            |
| 2002 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | 39                             | 345                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 65                             | 717                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 104                            | 837                            | 1                                 | 0.0097                      | 0.0009                         | 8                                 | 0.00                      | 0.0000                             | 0.0000                                | 0.03                            |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-125                | 21                             | 233                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 30                             | 430                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 196                            | 1292                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 61                             | 727                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | South of Cape Mendocino, CA           | Winter | 0-125                | 69                             | 491                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | South of Cape Mendocino, CA           | Winter | 125-250              | 81                             | 580                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | South of Cape Mendocino, CA           | Summer | 0-125                | 17                             | 265                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | South of Cape Mendocino, CA           | Summer | 125-250              | 109                            | 626                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | North of Cape Falcon, OR              | Winter | 0-125                | 162                            | 1075                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | North of Cape Falcon, OR              | Winter | 125-250              | 85                             | 971                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | North of Cape Falcon, OR              | Summer | 0-125                | 65                             | 1434                           | 1                                 | 0.0155                      | 0.0019                         | 22                                | 0.00                      | 0.0000                             | 0.0000                                | 0.06                            |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | 61                             | 380                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 146                            | 764                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 193                            | 841                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | *                              | 503                            | *                                 | 0.0179                      | 0.0000                         | 9                                 | *                         | 0.0001                             | 0.0000                                | 0.04                            |
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-125                | 29                             | 146                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 41                             | 279                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 18                             | 190                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | South of Cape Mendocino, CA           | Winter | 0-125                | *                              | 205                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | South of Cape Mendocino, CA           | Summer | 0-125                | 49                             | 350                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | South of Cape Mendocino, CA           | Summer | 125-250              | 49                             | 350                            | 1                                 | 0.0202                      | 0.0047                         | 7                                 | 0.00                      | 0.0001                             | 0.0000                                | 0.03                            |
| 2004 | North of Cape Falcon, OR              | Winter | 0-125                | 134                            | 309                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |

Table 2b (continued). Observed and expanded chum salmon bycatch in the LE trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Observed Groundfish Catch (mt) | Fleet Groundfish Landings (mt) | Observed Chum Count (Individuals) | Observed Bycatch Chum Ratio | Observed Bycatch Chum Ratio SE | Expanded Chum Catch (Individuals) | Observed Chum Weight (mt) | Observed Bycatch Chum Weight Ratio | Observed Bycatch Chum Weight Ratio SE | Expanded Chum Catch Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|--------------------------------|-----------------------------------|-----------------------------|--------------------------------|-----------------------------------|---------------------------|------------------------------------|---------------------------------------|---------------------------------|
| 2004 | North of Cape Falcon, OR              | Winter | 125-250              | 355                            | 1457                           | 1                                 | 0.0028                      | 0.0002                         | 4                                 | 0.00                      | 0.0000                             | 0.0000                                | 0.01                            |
| 2004 | North of Cape Falcon, OR              | Winter | 250+                 | 397                            | 1355                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | North of Cape Falcon, OR              | Summer | 0-125                | 419                            | 2785                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | North of Cape Falcon, OR              | Summer | 125-250              | 153                            | 805                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | 8                              | 8                              | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 227                            | 751                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 285                            | 1147                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 34                             | 443                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-125                | *                              | 5                              | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 109                            | 274                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 233                            | 647                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 70                             | 395                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | South of Cape Mendocino, CA           | Winter | 125-250              | 87                             | 365                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | South of Cape Mendocino, CA           | Summer | 0-125                | 69                             | 187                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2005 | North of Cape Falcon, OR              | Winter | 0-125                | 122                            | 519                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2005 | North of Cape Falcon, OR              | Winter | 125-250              | 271                            | 1463                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                              | 56                             | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 251                            | 864                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 78                             | 335                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2005 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 89                             | 592                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2005 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 79                             | 480                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2005 | South of Cape Mendocino, CA           | Summer | 0-125                | 86                             | 336                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2006 | North of Cape Falcon, OR              | Winter | 0-125                | 55                             | 212                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2006 | North of Cape Falcon, OR              | Winter | 125-250              | 174                            | 1106                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2006 | North of Cape Falcon, OR              | Summer | 0-125                | 611                            | 3928                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2006 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                              | 5                              | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2006 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 247                            | 926                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2006 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 151                            | 644                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2007 | North of Cape Falcon, OR              | Winter | 125-250              | 244                            | 1585                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |

Table 2b (continued). Observed and expanded chum salmon bycatch in the LE trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Observed Groundfish Catch (mt) | Fleet Groundfish Landings (mt) | Observed Chum Count (Individuals) | Observed Bycatch Chum Ratio | Observed Bycatch Chum Ratio SE | Expanded Chum Catch (Individuals) | Observed Chum Weight (mt) | Observed Bycatch Chum Weight Ratio | Observed Bycatch Chum Weight Ratio SE | Expanded Chum Catch Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|--------------------------------|-----------------------------------|-----------------------------|--------------------------------|-----------------------------------|---------------------------|------------------------------------|---------------------------------------|---------------------------------|
| 2007 | North of Cape Falcon, OR              | Summer | 0-125                | 221                            | 1786                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2007 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 183                            | 1053                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2007 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 262                            | 1420                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2007 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 85                             | 656                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2007 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 125-250              | 166                            | 838                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2008 | North of Cape Falcon, OR              | Winter | 0-125                | --                             | 60                             | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2008 | North of Cape Falcon, OR              | Winter | 125-250              | 302                            | 1936                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2008 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                              | 2                              | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2008 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 246                            | 1246                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2008 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 157                            | 874                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2008 | South of Cape Mendocino, CA           | Winter | 0-125                | *                              | 94                             | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2008 | South of Cape Mendocino, CA           | Summer | 0-125                | 102                            | 319                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2009 | North of Cape Falcon, OR              | Winter | 0-125                | 35                             | 132                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2009 | North of Cape Falcon, OR              | Winter | 125-250              | 568                            | 2773                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2009 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                              | 16                             | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2009 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 367                            | 1329                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2009 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 93                             | 608                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2009 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 389                            | 1518                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2009 | South of Cape Mendocino, CA           | Winter | 0-125                | 6                              | 72                             | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2009 | South of Cape Mendocino, CA           | Summer | 0-125                | 78                             | 189                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2010 | North of Cape Falcon, OR              | Winter | 0-125                | --                             | 77                             | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | --                             | 9                              | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 138                            | 1252                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 338                            | 2175                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2010 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | *                              | 365                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |

Table 2c. Observed and expanded coho salmon bycatch in the LE trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Observed Groundfish Catch (mt) | Fleet Groundfish Landings (mt) | Observed Coho Count (Individuals) | Observed Bycatch Coho Ratio | Observed Bycatch Coho Ratio SE | Expanded Coho Catch (Individuals) | Observed Coho Weight (mt) | Observed Bycatch Coho Weight Ratio | Observed Bycatch Coho Weight Ratio SE | Expanded Coho Catch Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|--------------------------------|-----------------------------------|-----------------------------|--------------------------------|-----------------------------------|---------------------------|------------------------------------|---------------------------------------|---------------------------------|
| 2002 | North of Cape Falcon, OR              | Winter | 0-125                | 150                            | 905                            | 1                                 | 0.0067                      | 0.0008                         | 6                                 | 0.00                      | 0.0000                             | 0.0000                                | 0.01                            |
| 2002 | North of Cape Falcon, OR              | Winter | 125-250              | 235                            | 994                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | North of Cape Falcon, OR              | Winter | 250+                 | 170                            | 917                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | North of Cape Falcon, OR              | Summer | 0-125                | 403                            | 2326                           | 2                                 | 0.0050                      | 0.0003                         | 12                                | 0.00                      | 0.0000                             | 0.0000                                | 0.00                            |
| 2002 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | 39                             | 345                            | 1                                 | 0.0253                      | 0.0047                         | 9                                 | 0.00                      | 0.0000                             | 0.0000                                | 0.01                            |
| 2002 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 65                             | 717                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 104                            | 837                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-125                | 21                             | 233                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 30                             | 430                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 196                            | 1292                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 61                             | 727                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | South of Cape Mendocino, CA           | Winter | 0-125                | 69                             | 491                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | South of Cape Mendocino, CA           | Winter | 125-250              | 81                             | 580                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | South of Cape Mendocino, CA           | Summer | 0-125                | 17                             | 265                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | South of Cape Mendocino, CA           | Summer | 125-250              | 109                            | 626                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | North of Cape Falcon, OR              | Winter | 0-125                | 162                            | 1075                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | North of Cape Falcon, OR              | Winter | 125-250              | 85                             | 971                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | North of Cape Falcon, OR              | Summer | 0-125                | 65                             | 1434                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | 61                             | 380                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 146                            | 764                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 193                            | 841                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | *                              | 503                            | *                                 | 0.0121                      | 0.0000                         | 6                                 | *                         | 0.0000                             | 0.0000                                | 0.02                            |
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-125                | 29                             | 146                            | 1                                 | 0.0343                      | 0.0076                         | 5                                 | 0.00                      | 0.0001                             | 0.0000                                | 0.01                            |
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 41                             | 279                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 18                             | 190                            | 2                                 | 0.1124                      | 0.0252                         | 21                                | 0.00                      | 0.0002                             | 0.0000                                | 0.04                            |
| 2003 | South of Cape Mendocino, CA           | Winter | 0-125                | *                              | 205                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | South of Cape Mendocino, CA           | Summer | 0-125                | 49                             | 350                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | South of Cape Mendocino, CA           | Summer | 125-250              | 49                             | 350                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | North of Cape Falcon, OR              | Winter | 0-125                | 134                            | 309                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |

Table 2c (continued). Observed and expanded coho salmon bycatch in the LE trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Observed Groundfish Catch (mt) | Fleet Groundfish Landings (mt) | Observed Coho Count (Individuals) | Observed Bycatch Coho Ratio | Observed Bycatch Coho Ratio SE | Expanded Coho Catch (Individuals) | Observed Coho Weight (mt) | Observed                  |                              |                                 |
|------|---------------------------------------|--------|----------------------|--------------------------------|--------------------------------|-----------------------------------|-----------------------------|--------------------------------|-----------------------------------|---------------------------|---------------------------|------------------------------|---------------------------------|
|      |                                       |        |                      |                                |                                |                                   |                             |                                |                                   |                           | Bycatch Coho Weight Ratio | Bycatch Coho Weight Ratio SE | Expanded Coho Catch Weight (mt) |
| 2004 | North of Cape Falcon, OR              | Winter | 125-250              | 355                            | 1457                           | 1                                 | 0.0028                      | 0.0002                         | 4                                 | 0.00                      | 0.0000                    | 0.0000                       | 0.01                            |
| 2004 | North of Cape Falcon, OR              | Winter | 250+                 | 397                            | 1355                           | --                                | --                          | --                             | --                                | --                        | --                        | --                           | --                              |
| 2004 | North of Cape Falcon, OR              | Summer | 0-125                | 419                            | 2785                           | 1                                 | 0.0024                      | 0.0001                         | 7                                 | 0.00                      | 0.0000                    | 0.0000                       | 0.02                            |
| 2004 | North of Cape Falcon, OR              | Summer | 125-250              | 153                            | 805                            | --                                | --                          | --                             | --                                | --                        | --                        | --                           | --                              |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | 8                              | 8                              | --                                | --                          | --                             | --                                | --                        | --                        | --                           | --                              |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 227                            | 751                            | 4                                 | 0.0176                      | 0.0065                         | 13                                | 0.01                      | 0.0000                    | 0.0000                       | 0.02                            |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 285                            | 1147                           | --                                | --                          | --                             | --                                | --                        | --                        | --                           | --                              |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 34                             | 443                            | 3                                 | 0.0971                      | 0.0217                         | 43                                | 0.01                      | 0.0004                    | 0.0001                       | 0.16                            |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-125                | *                              | 5                              | *                                 | 0.0203                      | 0.0001                         | 0                                 | *                         | 0.0000                    | 0.0000                       | 0.00                            |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 109                            | 274                            | --                                | --                          | --                             | --                                | --                        | --                        | --                           | --                              |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 233                            | 647                            | --                                | --                          | --                             | --                                | --                        | --                        | --                           | --                              |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 70                             | 395                            | --                                | --                          | --                             | --                                | --                        | --                        | --                           | --                              |
| 2004 | South of Cape Mendocino, CA           | Winter | 125-250              | 87                             | 365                            | --                                | --                          | --                             | --                                | --                        | --                        | --                           | --                              |
| 2004 | South of Cape Mendocino, CA           | Summer | 0-125                | 69                             | 187                            | --                                | --                          | --                             | --                                | --                        | --                        | --                           | --                              |
| 2005 | North of Cape Falcon, OR              | Winter | 0-125                | 122                            | 519                            | --                                | --                          | --                             | --                                | --                        | --                        | --                           | --                              |
| 2005 | North of Cape Falcon, OR              | Winter | 125-250              | 271                            | 1463                           | 1                                 | 0.0037                      | 0.0004                         | 5                                 | 0.00                      | 0.0000                    | 0.0000                       | 0.01                            |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                              | 56                             | --                                | --                          | --                             | --                                | --                        | --                        | --                           | --                              |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 251                            | 864                            | --                                | --                          | --                             | --                                | --                        | --                        | --                           | --                              |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 78                             | 335                            | --                                | --                          | --                             | --                                | --                        | --                        | --                           | --                              |
| 2005 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 89                             | 592                            | --                                | --                          | --                             | --                                | --                        | --                        | --                           | --                              |
| 2005 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 79                             | 480                            | --                                | --                          | --                             | --                                | --                        | --                        | --                           | --                              |
| 2005 | South of Cape Mendocino, CA           | Summer | 0-125                | 86                             | 336                            | --                                | --                          | --                             | --                                | --                        | --                        | --                           | --                              |
| 2006 | North of Cape Falcon, OR              | Winter | 0-125                | 55                             | 212                            | --                                | --                          | --                             | --                                | --                        | --                        | --                           | --                              |
| 2006 | North of Cape Falcon, OR              | Winter | 125-250              | 174                            | 1106                           | --                                | --                          | --                             | --                                | --                        | --                        | --                           | --                              |
| 2006 | North of Cape Falcon, OR              | Summer | 0-125                | 611                            | 3928                           | --                                | --                          | --                             | --                                | --                        | --                        | --                           | --                              |
| 2006 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                              | 5                              | --                                | --                          | --                             | --                                | --                        | --                        | --                           | --                              |
| 2006 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 247                            | 926                            | --                                | --                          | --                             | --                                | --                        | --                        | --                           | --                              |
| 2006 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 151                            | 644                            | --                                | --                          | --                             | --                                | --                        | --                        | --                           | --                              |
| 2007 | North of Cape Falcon, OR              | Winter | 125-250              | 244                            | 1585                           | 2                                 | 0.0082                      | 0.0011                         | 13                                | 0.00                      | 0.0000                    | 0.0000                       | 0.02                            |



Table 2c (continued). Observed and expanded coho salmon bycatch in the LE trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Observed Groundfish Catch (mt) | Fleet Groundfish Landings (mt) | Observed Coho Count (Individuals) | Observed Bycatch Coho Ratio | Observed Bycatch Coho Ratio SE | Expanded Coho Catch (Individuals) | Observed Coho Weight (mt) | Observed Bycatch Coho Weight Ratio | Observed Bycatch Coho Weight Ratio SE | Expanded Coho Catch Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|--------------------------------|-----------------------------------|-----------------------------|--------------------------------|-----------------------------------|---------------------------|------------------------------------|---------------------------------------|---------------------------------|
| 2007 | North of Cape Falcon, OR              | Summer | 0-125                | 221                            | 1786                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2007 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 183                            | 1053                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2007 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 262                            | 1420                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2007 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 85                             | 656                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2007 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 125-250              | 166                            | 838                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2008 | North of Cape Falcon, OR              | Winter | 0-125                | --                             | 60                             | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2008 | North of Cape Falcon, OR              | Winter | 125-250              | 302                            | 1936                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2008 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                              | 2                              | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2008 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 246                            | 1246                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2008 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 157                            | 874                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2008 | South of Cape Mendocino, CA           | Winter | 0-125                | *                              | 94                             | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2008 | South of Cape Mendocino, CA           | Summer | 0-125                | 102                            | 319                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2009 | North of Cape Falcon, OR              | Winter | 0-125                | 35                             | 132                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2009 | North of Cape Falcon, OR              | Winter | 125-250              | 568                            | 2773                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2009 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                              | 16                             | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2009 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 367                            | 1329                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2009 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 93                             | 608                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2009 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 389                            | 1518                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2009 | South of Cape Mendocino, CA           | Winter | 0-125                | 6                              | 72                             | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2009 | South of Cape Mendocino, CA           | Summer | 0-125                | 78                             | 189                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2010 | North of Cape Falcon, OR              | Winter | 0-125                | --                             | 77                             | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | --                             | 9                              | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 138                            | 1252                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 338                            | 2175                           | 4                                 | 0.0118                      | 0.0012                         | 26                                | 0.01                      | 0.0000                             | 0.0000                                | 0.07                            |
| 2010 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | *                              | 365                            | *                                 | 0.0139                      | 0.0000                         | 5                                 | *                         | 0.0000                             | 0.0000                                | 0.00                            |

Table 2d. Observed and expanded pink salmon bycatch in the LE trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Observed Groundfish Catch (mt) | Fleet Groundfish Landings (mt) | Observed Pink Count (Individuals) | Observed Bycatch Pink Ratio | Observed Bycatch Pink Ratio SE | Expanded Pink Catch (Individuals) | Observed Pink Weight (mt) | Observed Bycatch Pink Weight Ratio | Observed Bycatch Pink Weight Ratio SE | Expanded Pink Catch Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|--------------------------------|-----------------------------------|-----------------------------|--------------------------------|-----------------------------------|---------------------------|------------------------------------|---------------------------------------|---------------------------------|
| 2002 | North of Cape Falcon, OR              | Winter | 0-125                | 150                            | 905                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | North of Cape Falcon, OR              | Winter | 125-250              | 235                            | 994                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | North of Cape Falcon, OR              | Winter | 250+                 | 170                            | 917                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | North of Cape Falcon, OR              | Summer | 0-125                | 403                            | 2326                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | 39                             | 345                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 65                             | 717                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 104                            | 837                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-125                | 21                             | 233                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 30                             | 430                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 196                            | 1292                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 61                             | 727                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | South of Cape Mendocino, CA           | Winter | 0-125                | 69                             | 491                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | South of Cape Mendocino, CA           | Winter | 125-250              | 81                             | 580                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | South of Cape Mendocino, CA           | Summer | 0-125                | 17                             | 265                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2002 | South of Cape Mendocino, CA           | Summer | 125-250              | 109                            | 626                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | North of Cape Falcon, OR              | Winter | 0-125                | 162                            | 1075                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | North of Cape Falcon, OR              | Winter | 125-250              | 85                             | 971                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | North of Cape Falcon, OR              | Summer | 0-125                | 65                             | 1434                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | 61                             | 380                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 146                            | 764                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 193                            | 841                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | *                              | 503                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-125                | 29                             | 146                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 41                             | 279                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 18                             | 190                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | South of Cape Mendocino, CA           | Winter | 0-125                | *                              | 205                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | South of Cape Mendocino, CA           | Summer | 0-125                | 49                             | 350                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | South of Cape Mendocino, CA           | Summer | 125-250              | 49                             | 350                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | North of Cape Falcon, OR              | Winter | 0-125                | 134                            | 309                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |

Table 2d (continued). Observed and expanded pink salmon bycatch in the LE trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Observed Groundfish Catch (mt) | Fleet Groundfish Landings (mt) | Observed Pink Count (Individuals) | Observed Bycatch Pink Ratio | Observed Bycatch Pink Ratio SE | Expanded Pink Catch (Individuals) | Observed Pink Weight (mt) | Observed Bycatch Pink Weight Ratio | Observed Bycatch Pink Weight Ratio SE | Expanded Pink Catch Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|--------------------------------|-----------------------------------|-----------------------------|--------------------------------|-----------------------------------|---------------------------|------------------------------------|---------------------------------------|---------------------------------|
| 2004 | North of Cape Falcon, OR              | Winter | 125-250              | 355                            | 1457                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | North of Cape Falcon, OR              | Winter | 250+                 | 397                            | 1355                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | North of Cape Falcon, OR              | Summer | 0-125                | 419                            | 2785                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | North of Cape Falcon, OR              | Summer | 125-250              | 153                            | 805                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | 8                              | 8                              | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 227                            | 751                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 285                            | 1147                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 34                             | 443                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-125                | *                              | 5                              | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 109                            | 274                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 233                            | 647                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 70                             | 395                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | South of Cape Mendocino, CA           | Winter | 125-250              | 87                             | 365                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | South of Cape Mendocino, CA           | Summer | 0-125                | 69                             | 187                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2005 | North of Cape Falcon, OR              | Winter | 0-125                | 122                            | 519                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2005 | North of Cape Falcon, OR              | Winter | 125-250              | 271                            | 1463                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                              | 56                             | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 251                            | 864                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 78                             | 335                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2005 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 89                             | 592                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2005 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 79                             | 480                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2005 | South of Cape Mendocino, CA           | Summer | 0-125                | 86                             | 336                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2006 | North of Cape Falcon, OR              | Winter | 0-125                | 55                             | 212                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2006 | North of Cape Falcon, OR              | Winter | 125-250              | 174                            | 1106                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2006 | North of Cape Falcon, OR              | Summer | 0-125                | 611                            | 3928                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2006 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                              | 5                              | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2006 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 247                            | 926                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2006 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 151                            | 644                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2007 | North of Cape Falcon, OR              | Winter | 125-250              | 244                            | 1585                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |

Table 2d (continued). Observed and expanded pink salmon bycatch in the LE trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Observed Groundfish Catch (mt) | Fleet Groundfish Landings (mt) | Observed Pink Count (Individuals) | Observed Bycatch Pink Ratio | Observed Bycatch Pink Ratio SE | Expanded Pink Catch (Individuals) | Observed Pink Weight (mt) | Observed Bycatch Pink Weight Ratio | Observed Bycatch Pink Weight Ratio SE | Expanded Pink Catch Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|--------------------------------|-----------------------------------|-----------------------------|--------------------------------|-----------------------------------|---------------------------|------------------------------------|---------------------------------------|---------------------------------|
| 2007 | North of Cape Falcon, OR              | Summer | 0-125                | 221                            | 1786                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2007 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 183                            | 1053                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2007 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 262                            | 1420                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2007 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 85                             | 656                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2007 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 125-250              | 166                            | 838                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2008 | North of Cape Falcon, OR              | Winter | 0-125                | --                             | 60                             | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2008 | North of Cape Falcon, OR              | Winter | 125-250              | 302                            | 1936                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2008 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                              | 2                              | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2008 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 246                            | 1246                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2008 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 157                            | 874                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2008 | South of Cape Mendocino, CA           | Winter | 0-125                | *                              | 94                             | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2008 | South of Cape Mendocino, CA           | Summer | 0-125                | 102                            | 319                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2009 | North of Cape Falcon, OR              | Winter | 0-125                | 35                             | 132                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2009 | North of Cape Falcon, OR              | Winter | 125-250              | 568                            | 2773                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2009 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                              | 16                             | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2009 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 367                            | 1329                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2009 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 93                             | 608                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2009 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 389                            | 1518                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2009 | South of Cape Mendocino, CA           | Winter | 0-125                | 6                              | 72                             | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2009 | South of Cape Mendocino, CA           | Summer | 0-125                | 78                             | 189                            | 1                                 | 0.0128                      | 0.0016                         | 2                                 | 0.00                      | 0.0000                             | 0.0000                                | 0.00                            |
| 2010 | North of Cape Falcon, OR              | Winter | 0-125                | --                             | 77                             | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | --                             | 9                              | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 138                            | 1252                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 338                            | 2175                           | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2010 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | *                              | 365                            | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |

Table 2e. Observed and expanded unspecified bycatch in the LE trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Observed Groundfish Catch (mt) | Fleet Groundfish Landings (mt) | Observed Unspecified Count (Individuals) | Observed Bycatch Unspecified Ratio | Observed Bycatch Unspecified Ratio SE | Expanded Unspecified Catch (Individuals) | Observed Unspecified Weight (mt) | Observed Bycatch Unspecified Weight Ratio | Observed Bycatch Unspecified Weight Ratio SE | Expanded Unspecified Catch Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|--------------------------------|--|------------------------------------|---------------------------------------|--|----------------------------------|---|--|--|
| 2002 | North of Cape Falcon, OR              | Winter | 0-125                | 150                            | 905                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2002 | North of Cape Falcon, OR              | Winter | 125-250              | 235                            | 994                            | 1  | 0.0042                             | 0.0004                                | 4  | 0.00                             | 0.0000                                    | 0.0000                                       | 0.01                                   |
| 2002 | North of Cape Falcon, OR              | Winter | 250+                 | 170                            | 917                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2002 | North of Cape Falcon, OR              | Summer | 0-125                | 403                            | 2326                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2002 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | 39                             | 345                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2002 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 65                             | 717                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2002 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 104                            | 837                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-125                | 21                             | 233                            | 1  | 0.0469                             | 0.0094                                | 11                                       | 0.00                             | 0.0001                                    | 0.0000                                       | 0.03                                   |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 30                             | 430                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 196                            | 1292                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2002 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 61                             | 727                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2002 | South of Cape Mendocino, CA           | Winter | 0-125                | 69                             | 491                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2002 | South of Cape Mendocino, CA           | Winter | 125-250              | 81                             | 580                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2002 | South of Cape Mendocino, CA           | Summer | 0-125                | 17                             | 265                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2002 | South of Cape Mendocino, CA           | Summer | 125-250              | 109                            | 626                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2003 | North of Cape Falcon, OR              | Winter | 0-125                | 162                            | 1075                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2003 | North of Cape Falcon, OR              | Winter | 125-250              | 85                             | 971                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2003 | North of Cape Falcon, OR              | Summer | 0-125                | 65                             | 1434                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | 61                             | 380                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 146                            | 764                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 193                            | 841                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2003 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | *                              | 503                            | *  | 0.0074                             | 0.0000                                | 4  | *                                | 0.0000                                    | 0.0000                                       | 0.01                                   |
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-125                | 29                             | 146                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 41                             | 279                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 18                             | 190                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2003 | South of Cape Mendocino, CA           | Winter | 0-125                | *                              | 205                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2003 | South of Cape Mendocino, CA           | Summer | 0-125                | 49                             | 350                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2003 | South of Cape Mendocino, CA           | Summer | 125-250              | 49                             | 350                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2004 | North of Cape Falcon, OR              | Winter | 0-125                | 134                            | 309                            | 2  | 0.0149                             | 0.0011                                | 5  | 0.00                             | 0.0000                                    | 0.0000                                       | 0.00                                   |

Table 2e (continued). Observed and expanded unspecified bycatch in the LE trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Observed Groundfish Catch (mt) | Fleet Groundfish Landings (mt) | Observed Unspecified Count (Individuals) | Observed Bycatch Unspecified Ratio | Observed Bycatch Unspecified Ratio SE | Expanded Unspecified Catch (Individuals) | Observed Unspecified Weight (mt) | Observed Bycatch Unspecified Weight Ratio | Observed Bycatch Unspecified Weight Ratio SE | Expanded Unspecified Catch Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|--------------------------------|--|------------------------------------|---------------------------------------|--|----------------------------------|---|--|--|
| 2004 | North of Cape Falcon, OR              | Winter | 125-250              | 355                            | 1457                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2004 | North of Cape Falcon, OR              | Winter | 250+                 | 397                            | 1355                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2004 | North of Cape Falcon, OR              | Summer | 0-125                | 419                            | 2785                           | 1  | 0.0024                             | 0.0001                                | 7  | 0.00                             | 0.0000                                    | 0.0000                                       | 0.03                                   |
| 2004 | North of Cape Falcon, OR              | Summer | 125-250              | 153                            | 805                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | 8                              | 8                              | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 227                            | 751                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 285                            | 1147                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 34                             | 443                            | 2  | 0.0594                             | 0.0095                                | 26                                       | 0.01                             | 0.0002                                    | 0.0000                                       | 0.07                                   |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-125                | *                              | 5                              | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 109                            | 274                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 233                            | 647                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 70                             | 395                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2004 | South of Cape Mendocino, CA           | Winter | 125-250              | 87                             | 365                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2004 | South of Cape Mendocino, CA           | Summer | 0-125                | 69                             | 187                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2005 | North of Cape Falcon, OR              | Winter | 0-125                | 122                            | 519                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2005 | North of Cape Falcon, OR              | Winter | 125-250              | 271                            | 1463                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                              | 56                             | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 251                            | 864                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 78                             | 335                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2005 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 89                             | 592                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2005 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 79                             | 480                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2005 | South of Cape Mendocino, CA           | Summer | 0-125                | 86                             | 336                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2006 | North of Cape Falcon, OR              | Winter | 0-125                | 55                             | 212                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2006 | North of Cape Falcon, OR              | Winter | 125-250              | 174                            | 1106                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2006 | North of Cape Falcon, OR              | Summer | 0-125                | 611                            | 3928                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2006 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                              | 5                              | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2006 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 247                            | 926                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2006 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 151                            | 644                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2007 | North of Cape Falcon, OR              | Winter | 125-250              | 244                            | 1585                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |

Table 2e (continued). Observed and expanded unspecified bycatch in the LE trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Observed Groundfish Catch (mt) | Fleet Groundfish Landings (mt) | Observed Unspecified Count (Individuals) | Observed Bycatch Unspecified Ratio | Observed Bycatch Unspecified Ratio SE | Expanded Unspecified Catch (Individuals) | Observed Unspecified Weight (mt) | Observed Bycatch Unspecified Weight Ratio | Observed Bycatch Unspecified Weight Ratio SE | Expanded Unspecified Catch Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|--------------------------------|--|------------------------------------|---------------------------------------|--|----------------------------------|---|--|--|
| 2007 | North of Cape Falcon, OR              | Summer | 0-125                | 221                            | 1786                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2007 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 183                            | 1053                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2007 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 262                            | 1420                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2007 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 85                             | 656                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2007 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 125-250              | 166                            | 838                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2008 | North of Cape Falcon, OR              | Winter | 0-125                | --                             | 60                             | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2008 | North of Cape Falcon, OR              | Winter | 125-250              | 302                            | 1936                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2008 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                              | 2                              | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2008 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 246                            | 1246                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2008 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 157                            | 874                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2008 | South of Cape Mendocino, CA           | Winter | 0-125                | *                              | 94                             | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2008 | South of Cape Mendocino, CA           | Summer | 0-125                | 102                            | 319                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2009 | North of Cape Falcon, OR              | Winter | 0-125                | 35                             | 132                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2009 | North of Cape Falcon, OR              | Winter | 125-250              | 568                            | 2773                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2009 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | *                              | 16                             | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2009 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 367                            | 1329                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2009 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 93                             | 608                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2009 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 389                            | 1518                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2009 | South of Cape Mendocino, CA           | Winter | 0-125                | 6                              | 72                             | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2009 | South of Cape Mendocino, CA           | Summer | 0-125                | 78                             | 189                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2010 | North of Cape Falcon, OR              | Winter | 0-125                | --                             | 77                             | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | --                             | 9                              | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 138                            | 1252                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 338                            | 2175                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2010 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | *                              | 365                            | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |

Table 3. Observed vessels, trips, hauls, catch, and salmon interactions, as well as total fleet landings, stratified by year and season for the LE CA halibut fishery. All fishing occurred south of Cape Mendocino. To preserve confidentiality: 2010 data are reported in Tables 7 and 8, combined with OA CA halibut; 2011 and 2013 data are reported in Table 16, combined with IFQ Bottom Trawl; 2012 data cannot be reported; no fishing effort in LE CHLB has occurred since 2013.

| Year | Season   | Observed California Halibut Catch (mt) | Fleet California Halibut Landings (mt) | Observed Vessels | Observed Trips | Observed Hauls | Observed Hauls that Encountered Salmon | Percent of Observed Hauls that Encountered Salmon |
|------|----------|--|--|------------------|----------------|----------------|--|---|
| 2002 | All Year | 4                                      | 105                                    | 7                | 19             | 52             | 8                                      | 15  |
| 2003 | Winter   | 13                                     | 62                                     | 6                | 33             | 107            | 8                                      | 7   |
| 2003 | Summer   | 6                                      | 44                                     | 8                | 40             | 100            | 9                                      | 9   |
| 2004 | Winter   | 15                                     | 80                                     | 3                | 21             | 95             | 25                                     | 26  |
| 2004 | Summer   | 17                                     | 56                                     | 6                | 25             | 76             | 4                                      | 5   |
| 2005 | Winter   | 11                                     | 131                                    | 6                | 28             | 101            | 16                                     | 16  |
| 2005 | Summer   | 20                                     | 57                                     | 5                | 46             | 134            | 9                                      | 7   |
| 2006 | Winter   | 11                                     | 81                                     | 7                | 44             | 143            | 6                                      | 4   |
| 2006 | Summer   | 3                                      | 39                                     | 5                | 34             | 81             | 2                                      | 2   |
| 2007 | Winter   | 3                                      | 14                                     | 3                | 13             | 29             | 4                                      | 14  |
| 2007 | Summer   | 2                                      | 5                                      | 4                | 27             | 52             | 2                                      | 4   |
| 2008 | Winter   | 10                                     | 34                                     | 4                | 35             | 110            | 12                                     | 11  |
| 2008 | Summer   | 0.1                                    | 2                                      | 3                | 5              | 8              | --                                     | --  |
| 2009 | All Year | 3                                      | 47                                     | 3                | 12             | 29             | --                                     | --  |



Table 4a. Observed and expanded Chinook salmon bycatch in the LE CHLB fishery.

| Year | Season   | Observed California Halibut Catch (mt) | Fleet California Halibut Landings (mt) | Observed Chinook Count (Individuals) | Observed Bycatch Chinook Ratio | Observed Bycatch Chinook Ratio SE | Expanded Chinook Catch (Individuals) | Observed Chinook Weight (mt) | Observed Bycatch Chinook Weight Ratio | Observed Bycatch Chinook Weight Ratio SE | Expanded Chinook Catch Weight (mt) |
|------|----------|--|--|--------------------------------------|--------------------------------|-----------------------------------|--------------------------------------|------------------------------|---------------------------------------|--|------------------------------------|
| 2002 | All Year | 4                                      | 105                                    | 13                                   | 3.6214                         | 0.8655                            | 381                                  | 0.01                         | 0.0035                                | 0.0009                                   | 0.37                               |
| 2003 | Winter   | 13                                     | 62                                     | 9                                    | 0.6987                         | 0.1108                            | 43                                   | 0.01                         | 0.0008                                | 0.0002                                   | 0.05                               |
| 2003 | Summer   | 6                                      | 44                                     | 11                                   | 1.7706                         | 0.3368                            | 77                                   | 0.01                         | 0.0017                                | 0.0004                                   | 0.08                               |
| 2004 | Winter   | 15                                     | 80                                     | 88                                   | 5.9910                         | 1.8110                            | 479                                  | 0.13                         | 0.0086                                | 0.0019                                   | 0.68                               |
| 2004 | Summer   | 17                                     | 56                                     | 4                                    | 0.2381                         | 0.0345                            | 13                                   | 0.02                         | 0.0014                                | 0.0003                                   | 0.08                               |
| 2005 | Winter   | 11                                     | 131                                    | 31                                   | 2.8884                         | 0.5035                            | 380                                  | 0.06                         | 0.0053                                | 0.0009                                   | 0.70                               |
| 2005 | Summer   | 20                                     | 57                                     | 15                                   | 0.7583                         | 0.1682                            | 44                                   | 0.03                         | 0.0017                                | 0.0004                                   | 0.10                               |
| 2006 | Winter   | 11                                     | 81                                     | 13                                   | 1.1740                         | 0.4310                            | 95                                   | 0.02                         | 0.0016                                | 0.0006                                   | 0.13                               |
| 2006 | Summer   | 3                                      | 39                                     | 1                                    | 0.3112                         | 0.0473                            | 12                                   | 0.00                         | 0.0011                                | 0.0002                                   | 0.04                               |
| 2007 | Winter   | 3                                      | 14                                     | 11                                   | 3.6632                         | 1.6022                            | 52                                   | 0.02                         | 0.0070                                | 0.0030                                   | 0.10                               |
| 2007 | Summer   | 2                                      | 5                                      | 5                                    | 2.0454                         | 0.9490                            | 9                                    | 0.03                         | 0.0126                                | 0.0089                                   | 0.06                               |
| 2008 | Winter   | 10                                     | 34                                     | 21                                   | 2.2093                         | 0.4964                            | 75                                   | 0.05                         | 0.0050                                | 0.0012                                   | 0.17                               |

Table 4b. Observed and expanded coho salmon bycatch in the LE CHLB fishery.

| Year | Season   | Observed California Halibut Catch (mt) | Fleet California Halibut Landings (mt) | Observed Coho Count (Individuals) | Observed Bycatch Coho Ratio | Observed Bycatch Coho Ratio SE | Expanded Coho Catch (Individuals) | Observed Coho Weight (mt) | Observed Bycatch Coho Weight Ratio | Observed Bycatch Coho Weight Ratio SE | Expanded Coho Catch Weight (mt) |
|------|----------|--|--|-----------------------------------|-----------------------------|--------------------------------|-----------------------------------|---------------------------|------------------------------------|---------------------------------------|---------------------------------|
| 2002 | All Year | 4                                      | 105                                    | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | Winter   | 13                                     | 62                                     | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2003 | Summer   | 6                                      | 44                                     | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | Winter   | 15                                     | 80                                     | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2004 | Summer   | 17                                     | 56                                     | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2005 | Winter   | 11                                     | 131                                    | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2005 | Summer   | 20                                     | 57                                     | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2006 | Winter   | 11                                     | 81                                     | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2006 | Summer   | 3                                      | 39                                     | 4                                 | 1.2449                      | 0.1890                         | 48                                | 0.02                      | 0.0050                             | 0.0008                                | 0.1929                          |
| 2007 | Winter   | 3                                      | 14                                     | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2007 | Summer   | 2                                      | 5                                      | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |
| 2008 | Winter   | 10                                     | 34                                     | --                                | --                          | --                             | --                                | --                        | --                                 | --                                    | --                              |

Table 4c. Observed and expanded unspecified bycatch in the LE CHLB fishery.

| Year | Season   | Observed California Halibut Catch (mt) | Fleet California Halibut Landings (mt) | Observed Unspecified Count (Individuals) | Observed Bycatch Unspecified Ratio | Observed Bycatch Unspecified Ratio SE | Expanded Unspecified Catch (Individuals) | Observed Unspecified Weight (mt) | Observed Bycatch Unspecified Weight Ratio | Observed Bycatch Unspecified Weight Ratio SE | Expanded Unspecified Catch Weight (mt) |
|------|----------|--|--|--|------------------------------------|---------------------------------------|--|----------------------------------|---|--|--|
| 2002 | All Year | 4                                      | 105                                    | 5  | 1.3929                             | 0.2428                                | 147                                      | 0.00                             | 0.0007                                    | 0.0001                                       | 0.07                                   |
| 2003 | Winter   | 13                                     | 62                                     | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2003 | Summer   | 6                                      | 44                                     | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2004 | Winter   | 15                                     | 80                                     | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2004 | Summer   | 17                                     | 56                                     | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2005 | Winter   | 11                                     | 131                                    | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2005 | Summer   | 20                                     | 57                                     | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2006 | Winter   | 11                                     | 81                                     | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2006 | Summer   | 3                                      | 39                                     | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2007 | Winter   | 3                                      | 14                                     | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2007 | Summer   | 2                                      | 5                                      | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2008 | Winter   | 10                                     | 34                                     | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |

Table 5. Observed vessels, trips, hauls, catch, and salmon interactions, as well as fleet landings, stratified by year for the OA CA halibut fishery. Note that all fishing in this fishery occurred south of Cape Mendocino. Strata not listed were not observed.

| <b>Year</b> | <b>Observed California Halibut Catch (mt)</b> | <b>Fleet California Halibut Landings (mt)</b> | <b>Observed Vessels</b> | <b>Observed Trips</b> | <b>Observed Hauls</b> | <b>Observed Hauls that Encountered Salmon</b> |
|-------------|---|---|-------------------------|-----------------------|-----------------------|---|
| 2003        | 2   | 26  | 5                       | 18                    | 110                   | --  |
| 2004        | 5   | 71  | 4                       | 53                    | 244                   | --  |
| 2005        | 7   | 65  | 6                       | 59                    | 362                   | --  |
| 2007        | 3   | 39  | 8                       | 48                    | 227                   | --  |
| 2008        | 3   | 52  | 7                       | 49                    | 199                   | --  |
| 2009        | 1   | 82  | 3                       | 9                     | 30                    | --  |
| 2011        | 12  | 80  | 13                      | 48                    | 204                   | 5   |
| 2012        | 4   | 56  | 7                       | 27                    | 78                    | --  |
| 2013        | 4   | 69  | 5                       | 29                    | 81                    | 4   |
| 2014        | 18  | 81  | 6                       | 51                    | 145                   | 1   |
| 2015        | 31  | 92  | 8                       | 100                   | 339                   | 25  |
| 2016        | 27  | 90  | 11                      | 114                   | 500                   | 23  |

Table 6a. Observed and expanded Chinook salmon bycatch in the OA CHLB fishery.

| Year | Observed California Halibut Catch (mt) | Fleet California Halibut Landings (mt) | Observed Chinook Count (Individuals) | Observed Bycatch Chinook Ratio | Observed Bycatch Chinook Ratio SE | Expanded Chinook Catch (Individuals) | Observed Chinook Weight (mt) | Observed Bycatch Chinook Weight Ratio | Observed Bycatch Chinook Weight Ratio SE | Expanded Chinook Catch Weight (mt) |
|------|--|--|--------------------------------------|--------------------------------|-----------------------------------|--------------------------------------|------------------------------|---------------------------------------|--|------------------------------------|
| 2011 | 12                                     | 80                                     | 7                                    | 0.5624                         | 0.1581                            | 45                                   | 0.00                         | 0.0003                                | 0.0000                                   | 0.02                               |
| 2013 | 4                                      | 69                                     | 6                                    | 1.3938                         | 0.4470                            | 96                                   | 0.00                         | 0.0006                                | 0.0001                                   | 0.04                               |
| 2014 | 18                                     | 81                                     | 1                                    | 0.0551                         | 0.0057                            | 4                                    | 0.00                         | 0.0000                                | 0.0000                                   | 0.00                               |
| 2015 | 31                                     | 92                                     | 44                                   | 1.4372                         | 0.2117                            | 132                                  | 0.10                         | 0.0032                                | 0.0006                                   | 0.29                               |
| 2016 | 27                                     | 90                                     | 57                                   | 2.0858                         | 0.3297                            | 187                                  | 0.16                         | 0.0059                                | 0.0010                                   | 0.53                               |

Table 6b. Observed and expanded unspecified bycatch in the OA CHLB fishery.

| Year | Observed California Halibut Catch (mt) | Fleet California Halibut Landings (mt) | Observed Unspecified Count (Individuals) | Observed Bycatch Unspecified Ratio | Observed Bycatch Unspecified Ratio SE | Expanded Unspecified Catch (Individuals) | Observed Unspecified Weight (mt) | Observed Bycatch Unspecified Weight Ratio | Observed Bycatch Unspecified Weight Ratio SE | Expanded Unspecified Catch Weight (mt) |
|------|--|--|--|------------------------------------|---------------------------------------|--|----------------------------------|---|--|--|
| 2011 | 12                                     | 80                                     | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2013 | 4                                      | 69                                     | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2014 | 18                                     | 81                                     | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2015 | 31                                     | 92                                     | 3  | 0.0980                             | 0.0077                                | 9  | 0.00                             | 0.0001                                    | 0.0000                                       | 0.01                                   |
| 2016 | 27                                     | 90                                     | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |

Table 7. Observed vessels, trips, hauls, catch, and salmon interactions, as well as fleet landings, for the combined LE & OA CA halibut fishery, combined in 2010 to maintain confidentiality. Note that all fishing in this fishery occurred south of Cape Mendocino.

| Season | Observed California Halibut Catch (mt) | Fleet California Halibut Landings (mt) | Observed Vessels | Observed Trips | Observed Hauls | Observed Hauls that Encountered Salmon | Percent of Observed Hauls that Encountered Salmon |
|--------|--|--|------------------|----------------|----------------|--|---|
| Winter | 7                                      | 61                                     | 4                | 22             | 87             | 2                                      | 2   |
| Summer | 2                                      | 63                                     | 4                | 21             | 66             | --                                     | --  |

Table 8. Observed and expanded salmon bycatch in the combined LE & OA CHLB fishery in 2010.

| Season | Observed California Halibut Catch (mt) | Fleet California Halibut Landings (mt) | Observed Chinook Count (Individuals) | Observed Bycatch Chinook Ratio | Observed Bycatch Chinook Ratio SE | Expanded Chinook Catch (Individuals) | Observed Chinook Weight (mt) | Observed Bycatch Chinook Weight Ratio | Observed Bycatch Chinook Weight Ratio SE | Expanded Chinook Catch Weight (mt) |
|--------|--|--|--------------------------------------|--------------------------------|-----------------------------------|--------------------------------------|------------------------------|---------------------------------------|--|------------------------------------|
| Winter | 7                                      | 61                                     | 2                                    | 0.2851                         | 0.0482                            | 17                                   | 0.00                         | 0.0002                                | 0.0001                                   | 0.01                               |

Table 9. Observed vessels, trips, hauls, catch, and salmon interactions, as well as fleet landings, stratified by year and area for the LE sablefish primary fishery, using hook-and-line gear. Strata not listed were not observed.

| Year | Area                               | Observed Sablefish Catch (mt) | Fleet Sablefish Landings (mt) | Observed Vessels | Observed Trips | Observed Hauls | Observed Hauls that Encountered Salmon | Percent of Observed Hauls that Encountered Salmon |
|------|------------------------------------|-------------------------------|-------------------------------|------------------|----------------|----------------|--|---|
| 2002 | North of Cape Falcon, OR           | 103                           | 455                           | 9                | 24             | 224            | --                                     | --  |
| 2002 | Cape Falcon, OR to Cape Blanco, OR | 71                            | 182                           | 12               | 32             | 114            | --                                     | --  |
| 2002 | South of Cape Blanco, OR           | 17                            | 151                           | 7                | 14             | 53             | --                                     | --  |
| 2003 | North of Cape Falcon, OR           | 158                           | 502                           | 9                | 28             | 231            | 1                                      | 0   |
| 2003 | Cape Falcon, OR to Cape Blanco, OR | 41                            | 293                           | 3                | 8              | 70             | --                                     | --  |
| 2003 | South of Cape Blanco, OR           | 24                            | 240                           | 4                | 13             | 50             | --                                     | --  |
| 2004 | North of Cape Falcon, OR           | 95                            | 786                           | 9                | 19             | 204            | --                                     | --  |
| 2004 | Cape Falcon, OR to Cape Blanco, OR | 65                            | 333                           | 4                | 16             | 81             | --                                     | --  |
| 2004 | South of Cape Blanco, OR           | 20                            | 190                           | 5                | 11             | 41             | --                                     | --  |
| 2005 | North of Cape Falcon, OR           | 254                           | 722                           | 11               | 34             | 422            | --                                     | --  |
| 2005 | Cape Falcon, OR to Cape Blanco, OR | 123                           | 357                           | 11               | 33             | 142            | 1                                      | 1   |
| 2005 | South of Cape Blanco, OR           | 105                           | 213                           | 10               | 38             | 114            | --                                     | --  |
| 2006 | North of Cape Falcon, OR           | 178                           | 838                           | 13               | 47             | 362            | --                                     | --  |
| 2006 | Cape Falcon, OR to Cape Blanco, OR | 95                            | 304                           | 5                | 13             | 81             | --                                     | --  |
| 2006 | South of Cape Blanco, OR           | 23                            | 235                           | 3                | 8              | 27             | --                                     | --  |
| 2007 | North of Cape Falcon, OR           | 163                           | 605                           | 11               | 38             | 397            | 1                                      | 0   |
| 2007 | Cape Falcon, OR to Cape Blanco, OR | 106                           | 288                           | 8                | 18             | 78             | --                                     | --  |
| 2007 | South of Cape Blanco, OR           | 30                            | 187                           | 6                | 19             | 42             | --                                     | --  |
| 2008 | North of Cape Falcon, OR           | 117                           | 574                           | 9                | 34             | 282            | --                                     | --  |
| 2008 | Cape Falcon, OR to Cape Blanco, OR | 175                           | 336                           | 9                | 35             | 207            | --                                     | --  |
| 2008 | South of Cape Blanco, OR           | 46                            | 184                           | 5                | 13             | 51             | --                                     | --  |
| 2009 | North of Cape Falcon, OR           | 43                            | 705                           | 4                | 13             | 179            | --                                     | --  |
| 2009 | Cape Falcon, OR to Cape Blanco, OR | 36                            | 471                           | 4                | 9              | 75             | --                                     | --  |
| 2009 | South of Cape Blanco, OR           | 18                            | 271                           | 4                | 24             | 33             | --                                     | --  |
| 2010 | North of Cape Falcon, OR           | 155                           | 564                           | 7                | 41             | 396            | --                                     | --  |
| 2010 | Cape Falcon, OR to Cape Blanco, OR | 156                           | 478                           | 9                | 61             | 279            | --                                     | --  |
| 2010 | South of Cape Blanco, OR           | 35                            | 262                           | 11               | 46             | 87             | --                                     | --  |
| 2011 | North of Cape Falcon, OR           | 99                            | 457                           | 9                | 31             | 375            | --                                     | --  |

Table 9 (continued). Observed vessels, trips, hauls, catch, and salmon interactions, as well as fleet landings, for the LE sablefish primary fishery.

| Year | Area                               | Observed Sablefish Catch (mt) | Fleet Sablefish Landings (mt) | Observed Vessels | Observed Trips | Observed Hauls | Observed Hauls that Encountered Salmon | Percent of Observed Hauls that Encountered Salmon |
|------|------------------------------------|-------------------------------|-------------------------------|------------------|----------------|----------------|--|---|
| 2011 | Cape Falcon, OR to Cape Blanco, OR | 70                            | 416                           | 10               | 30             | 161            | --                                     | --  |
| 2011 | South of Cape Blanco, OR           | 72                            | 280                           | 11               | 44             | 137            | --                                     | --  |
| 2012 | North of Cape Falcon, OR           | 76                            | 364                           | 7                | 21             | 177            | --                                     | --  |
| 2012 | Cape Falcon, OR to Cape Blanco, OR | 97                            | 398                           | 7                | 43             | 231            | --                                     | --  |
| 2012 | South of Cape Blanco, OR           | 66                            | 313                           | 5                | 31             | 124            | --                                     | --  |
| 2013 | North of Cape Falcon, OR           | 68                            | 291                           | 6                | 12             | 155            | --                                     | --  |
| 2013 | Cape Falcon, OR to Cape Blanco, OR | 14                            | 241                           | 6                | 9              | 48             | --                                     | --  |
| 2013 | South of Cape Blanco, OR           | 84                            | 220                           | 11               | 38             | 150            | --                                     | --  |
| 2014 | North of Cape Falcon, OR           | 84                            | 307                           | 5                | 14             | 281            | 7                                      | 2   |
| 2014 | Cape Falcon, OR to Cape Blanco, OR | 45                            | 227                           | 4                | 13             | 63             | --                                     | --  |
| 2014 | South of Cape Blanco, OR           | 74                            | 211                           | 9                | 58             | 151            | --                                     | --  |
| 2015 | North of Cape Falcon, OR           | 124                           | 369                           | 9                | 28             | 310            | 1                                      | 0   |
| 2015 | Cape Falcon, OR to Cape Blanco, OR | 158                           | 312                           | 12               | 34             | 182            | --                                     | --  |
| 2015 | South of Cape Blanco, OR           | 110                           | 258                           | 10               | 37             | 140            | --                                     | --  |
| 2016 | North of Cape Falcon, OR           | 89                            | 403                           | 5                | 16             | 278            | --                                     | --  |
| 2016 | Cape Falcon, OR to Cape Blanco, OR | 137                           | 333                           | 8                | 33             | 219            | --                                     | --  |
| 2016 | South of Cape Blanco, OR           | 112                           | 290                           | 11               | 48             | 174            | --                                     | --  |



Table 10a. Observed and expanded coho bycatch in the LE sablefish primary fishery using hook-and-line gear.

| Year | Area                               | Observed Sablefish Catch (mt) | Fleet Sablefish Landings (mt) | Observed Coho Count (Individuals) | Observed Bycatch Coho Ratio | Observed Bycatch Coho Ratio SE | Expanded Coho Catch (Individuals) | Observed Coho Weight (mt) | Observed Bycatch Coho Weight Ratio | Observed Bycatch Coho Weight Ratio SE | Expanded Coho Catch Weight (mt) |
|------|------------------------------------|-------------------------------|-------------------------------|-----------------------------------|-----------------------------|--------------------------------|-----------------------------------|---------------------------|------------------------------------|---------------------------------------|---------------------------------|
| 2003 | North of Cape Falcon, OR           | 158                           | 502                           | 1                                 | 0.0063                      | 0.0006                         | 3                                 | 0.00                      | 0.0000                             | 0.0000                                | 0.01                            |
| 2005 | Cape Falcon, OR to Cape Blanco, OR | 123                           | 357                           | 1                                 | 0.0081                      | 0.0008                         | 3                                 | 0.00                      | 0.0000                             | 0.0000                                | 0.01                            |
| 2007 | North of Cape Falcon, OR           | 163                           | 605                           | 1                                 | 0.0062                      | 0.0004                         | 4                                 | 0.00                      | 0.0000                             | 0.0000                                | 0.01                            |
| 2014 | North of Cape Falcon, OR           | 84                            | 307                           | 6                                 | 0.0715                      | 0.0060                         | 22                                | 0.02                      | 0.0002                             | 0.0000                                | 0.08                            |
| 2015 | North of Cape Falcon, OR           | 124                           | 369                           | 1                                 | 0.0080                      | 0.0006                         | 3                                 | 0.00                      | 0.0000                             | 0.0000                                | 0.01                            |

Table 10b. Observed and expanded unspecified bycatch in the LE sablefish primary fishery using hook-and-line gear.

| Year | Area                               | Observed Sablefish Catch (mt) | Fleet Sablefish Landings (mt) | Observed Unspecified Count (Individuals) | Observed Bycatch Unspecified Ratio | Observed Bycatch Unspecified Ratio SE | Expanded Unspecified Catch (Individuals) | Observed Unspecified Weight (mt) | Observed Bycatch Unspecified Weight Ratio | Observed Bycatch Unspecified Weight Ratio SE | Expanded Unspecified Catch Weight (mt) |
|------|------------------------------------|-------------------------------|-------------------------------|--|------------------------------------|---------------------------------------|--|----------------------------------|---|--|--|
| 2003 | North of Cape Falcon, OR           | 158                           | 502                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2005 | Cape Falcon, OR to Cape Blanco, OR | 123                           | 357                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2007 | North of Cape Falcon, OR           | 163                           | 605                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |
| 2014 | North of Cape Falcon, OR           | 84                            | 307                           | 1  | 0.0119                             | 0.0010                                | 4  | 0.01                             | 0.0001                                    | 0.0000                                       | 0.02                                   |
| 2015 | North of Cape Falcon, OR           | 124                           | 369                           | --                                       | --                                 | --                                    | --                                       | --                               | --  | --   | --                                     |

Table 11. Observed vessels, trips, hauls, catch, and salmon interactions, as well as fleet landings, stratified by state, year, and area for the pink shrimp fishery. Strata not listed were not observed.

| State      | Year | Area                                  | Observed Pink Shrimp Catch (mt) | Fleet Pink Shrimp Landings (mt) | Observed Vessels | Observed Trips | Observed Hauls | Observed Hauls that Encountered Salmon | Percent of Observed Hauls that Encountered Salmon |
|------------|------|---------------------------------------|---------------------------------|---------------------------------|------------------|----------------|----------------|--|---|
| Washington | 2010 | North of Cape Falcon, OR              | 399                             | 4296                            | 7                | 18             | 341            | --                                     | --  |
| Washington | 2011 | North of Cape Falcon, OR              | 697                             | 4312                            | 11               | 35             | 578            | --                                     | --  |
| Washington | 2012 | North of Cape Falcon, OR              | 626                             | 4239                            | 10               | 31             | 524            | --                                     | --  |
| Washington | 2013 | North of Cape Falcon, OR              | 627                             | 6158                            | 13               | 29             | 386            | --                                     | --  |
| Washington | 2014 | North of Cape Falcon, OR              | 981                             | 13876                           | 17               | 43             | 401            | --                                     | --  |
| Washington | 2015 | North of Cape Falcon, OR              | 2151                            | 18814                           | 24               | 100            | 1458           | 2                                      | 0   |
| Washington | 2016 | North of Cape Falcon, OR              | 1108                            | 6396                            | 17               | 59             | 974            | --                                     | --  |
| Oregon     | 2004 | North of Cape Falcon, OR              | 142                             | 2135                            | 11               | 24             | 240            | --                                     | --  |
| Oregon     | 2004 | Cape Falcon, OR to Cape Mendocino, CA | 285                             | 3402                            | 18               | 40             | 525            | --                                     | --  |
| Oregon     | 2005 | North of Cape Falcon, OR              | 105                             | 1888                            | 11               | 12             | 132            | --                                     | --  |
| Oregon     | 2005 | Cape Falcon, OR to Cape Mendocino, CA | 298                             | 5272                            | 18               | 32             | 401            | --                                     | --  |
| Oregon     | 2007 | North of Cape Falcon, OR              | 76                              | 1612                            | 9                | 15             | 161            | --                                     | --  |
| Oregon     | 2007 | Cape Falcon, OR to Cape Blanco, OR    | 529                             | 7281                            | 27               | 56             | 723            | --                                     | --  |
| Oregon     | 2007 | Cape Blanco, OR to Cape Mendocino, CA | 45                              | 236                             | 3                | 5              | 45             | --                                     | --  |
| Oregon     | 2008 | North of Cape Falcon, OR              | 215                             | 3309                            | 11               | 19             | 292            | --                                     | --  |
| Oregon     | 2008 | Cape Falcon, OR to Cape Blanco, OR    | 386                             | 7648                            | 23               | 34             | 429            | --                                     | --  |
| Oregon     | 2008 | Cape Blanco, OR to Cape Mendocino, CA | 72                              | 620                             | 6                | 6              | 64             | --                                     | --  |
| Oregon     | 2009 | North of Cape Falcon, OR              | 192                             | 2099                            | 13               | 17             | 212            | --                                     | --  |
| Oregon     | 2009 | Cape Falcon, OR to Cape Blanco, OR    | 366                             | 7453                            | 25               | 32             | 366            | --                                     | --  |
| Oregon     | 2009 | Cape Blanco, OR to Cape Mendocino, CA | 194                             | 498                             | 11               | 13             | 94             | --                                     | --  |
| Oregon     | 2010 | North of Cape Falcon, OR              | 222                             | 3767                            | 12               | 25             | 256            | --                                     | --  |
| Oregon     | 2010 | Cape Falcon, OR to Cape Blanco, OR    | 993                             | 9533                            | 34               | 68             | 771            | --                                     | --  |
| Oregon     | 2010 | Cape Blanco, OR to Cape Mendocino, CA | 491                             | 991                             | 17               | 25             | 206            | --                                     | --  |
| Oregon     | 2011 | North of Cape Falcon, OR              | 527                             | 4556                            | 12               | 30             | 458            | --                                     | --  |
| Oregon     | 2011 | Cape Falcon, OR to Cape Blanco, OR    | 1417                            | 16274                           | 33               | 81             | 978            | --                                     | --  |
| Oregon     | 2011 | Cape Blanco, OR to Cape Mendocino, CA | 1042                            | 1085                            | 21               | 50             | 456            | --                                     | --  |
| Oregon     | 2012 | North of Cape Falcon, OR              | 467                             | 3990                            | 14               | 33             | 507            | --                                     | --  |
| Oregon     | 2012 | Cape Falcon, OR to Cape Blanco, OR    | 1064                            | 16633                           | 38               | 86             | 930            | --                                     | --  |

Table 11 (continued). Observed vessels, trips, hauls, catch, and salmon interactions, as well as fleet landings, for the pink shrimp fishery.

| State      | Year | Area                                  | Observed<br>Pink Shrimp<br>Catch (mt) | Fleet Pink<br>Shrimp<br>Landings<br>(mt) | Observed<br>Vessels | Observed<br>Trips | Observed<br>Hauls | Observed<br>Hauls that<br>Encountered<br>Salmon | Percent of<br>Observed<br>Hauls that<br>Encountered<br>Salmon |
|------------|------|---------------------------------------|---------------------------------------|--|---------------------|-------------------|-------------------|---|---|
| Oregon     | 2012 | Cape Blanco, OR to Cape Mendocino, CA | 1482                                  | 1669                                     | 31                  | 70                | 685               | 1   | 0   |
| Oregon     | 2013 | North of Cape Falcon, OR              | 417                                   | 3307                                     | 12                  | 23                | 292               | --  | --  |
| Oregon     | 2013 | Cape Falcon, OR to Cape Blanco, OR    | 1085                                  | 16289                                    | 37                  | 66                | 745               | --  | --  |
| Oregon     | 2013 | Cape Blanco, OR to Cape Mendocino, CA | 811                                   | 2009                                     | 22                  | 37                | 366               | --  | --  |
| Oregon     | 2014 | North of Cape Falcon, OR              | 824                                   | 4634                                     | 18                  | 32                | 401               | --  | --  |
| Oregon     | 2014 | Cape Falcon, OR to Cape Blanco, OR    | 1110                                  | 17199                                    | 29                  | 70                | 797               | --  | --  |
| Oregon     | 2014 | Cape Blanco, OR to Cape Mendocino, CA | 357                                   | 1741                                     | 12                  | 20                | 265               | --  | --  |
| Oregon     | 2015 | North of Cape Falcon, OR              | 959                                   | 7764                                     | 27                  | 62                | 950               | --  | --  |
| Oregon     | 2015 | Cape Falcon, OR to Cape Blanco, OR    | 409                                   | 13339                                    | 23                  | 46                | 399               | --  | --  |
| Oregon     | 2015 | Cape Blanco, OR to Cape Mendocino, CA | 914                                   | 3170                                     | 21                  | 46                | 641               | --  | --  |
| Oregon     | 2016 | North of Cape Falcon, OR              | 685                                   | 2829                                     | 15                  | 37                | 633               | --  | --  |
| Oregon     | 2016 | Cape Falcon, OR to Cape Blanco, OR    | 971                                   | 10835                                    | 41                  | 95                | 1182              | --  | --  |
| Oregon     | 2016 | Cape Blanco, OR to Cape Mendocino, CA | 653                                   | 2451                                     | 29                  | 53                | 652               | --  | --  |
| California | 2010 | South of Cape Blanco, OR              | 266                                   | 1771                                     | 8                   | 14                | 134               | --  | --  |
| California | 2011 | South of Cape Blanco, OR              | 421                                   | 3333                                     | 8                   | 19                | 203               | --  | --  |
| California | 2012 | South of Cape Blanco, OR              | 348                                   | 2791                                     | 7                   | 15                | 175               | --  | --  |
| California | 2013 | South of Cape Blanco, OR              | 360                                   | 3915                                     | 10                  | 17                | 188               | --  | --  |
| California | 2014 | South of Cape Blanco, OR              | 598                                   | 3845                                     | 11                  | 26                | 337               | --  | --  |
| California | 2015 | South of Cape Blanco, OR              | 335                                   | 3453                                     | 9                   | 23                | 335               | --  | --  |
| California | 2016 | Cape Blanco, OR to Cape Mendocino, CA | 130                                   | 885                                      | 8                   | 17                | 275               | 1   | 0   |
| California | 2016 | North of Cape Falcon, OR              | 184                                   | 452                                      | 5                   | 11                | 131               | --  | --  |

Table 12a. Observed and expanded Chinook salmon bycatch in the pink shrimp fishery.

| State | Year | Area                                  | Observed<br>Pink<br>Shrimp<br>Catch<br>(mt) | Fleet Pink<br>Shrimp<br>Landings<br>(mt) | Observed<br>Chinook<br>Count<br>(Indivi-<br>duals) | Observed<br>Bycatch<br>Chinook<br>Ratio | Observed<br>Bycatch<br>Chinook<br>Ratio SE | Expanded<br>Chinook<br>Catch<br>(Indivi-<br>duals) | Observed<br>Chinook<br>Weight<br>(mt) | Observed<br>Bycatch<br>Chinook<br>Weight<br>Ratio | Observed<br>Bycatch<br>Chinook<br>Weight<br>Ratio SE | Expanded<br>Chinook<br>Catch<br>Weight<br>(mt) |
|-------|------|---------------------------------------|---|--|--|---|--|--|---------------------------------------|---|--|--|
| WA    | 2015 | North of Cape Falcon, OR              | 2151  | 18814                                    | --   | --                                      | --   | --   | --                                    | --  | --   | --   |
| OR    | 2012 | Cape Blanco, OR to Cape Mendocino, CA | 1482  | 1669                                     | 2  | 0.0013                                  | 0.0001                                     | 2  | 0.00                                  | 0.0000  | 0.0000   | 0.00   |
| CA    | 2016 | Cape Blanco, OR to Cape Mendocino, CA | 130   | 885                                      | 7  | 0.0534                                  | 0.0051                                     | 47   | 0.00                                  | 0.0000  | 0.0000   | 0.00   |

Table 12b. Observed and expanded chum salmon bycatch in the pink shrimp fishery.

| State | Year | Area                                  | Observed<br>Pink<br>Shrimp<br>Catch<br>(mt) | Fleet Pink<br>Shrimp<br>Landings<br>(mt) | Observed<br>Chum<br>Count<br>(Indivi-<br>duals) | Observed<br>Bycatch<br>Chum<br>Ratio | Observed<br>Bycatch<br>Chum<br>Ratio SE | Expanded<br>Chum<br>Catch<br>(Indivi-<br>duals) | Observed<br>Chum<br>Weight<br>(mt) | Observed<br>Bycatch<br>Chum<br>Weight<br>Ratio | Observed<br>Bycatch<br>Chum<br>Weight<br>Ratio SE | Expanded<br>Chum<br>Catch<br>Weight<br>(mt) |
|-------|------|---------------------------------------|---|--|---|--------------------------------------|---|---|------------------------------------|--|---|---|
| WA    | 2015 | North of Cape Falcon, OR              | 2151  | 18814                                    | 6   | 0.0028                               | 0.0006                                  | 53  | 0.00                               | 0.0000   | 0.0000  | 0.00  |
| OR    | 2012 | Cape Blanco, OR to Cape Mendocino, CA | 1482  | 1669                                     | --  | --                                   | --                                      | --  | --                                 | --   | --  | --  |
| CA    | 2016 | Cape Blanco, OR to Cape Mendocino, CA | 130   | 885                                      | --  | --                                   | --                                      | --  | --                                 | --   | --  | --  |

Table 12c. Observed and expanded coho salmon bycatch in the pink shrimp fishery.

| State | Year | Area                                  | Observed<br>Pink<br>Shrimp<br>Catch<br>(mt) | Fleet Pink<br>Shrimp<br>Landings<br>(mt) | Observed<br>Coho<br>Count<br>(Indivi-<br>duals) | Observed<br>Bycatch<br>Coho<br>Ratio | Observed<br>Bycatch<br>Coho<br>Ratio SE | Expanded<br>Coho<br>Catch<br>(Indivi-<br>duals) | Observed<br>Coho<br>Weight<br>(mt) | Observed<br>Bycatch<br>Coho<br>Weight<br>Ratio | Observed<br>Bycatch<br>Coho<br>Weight<br>Ratio SE | Expanded<br>Coho<br>Catch<br>Weight<br>(mt) |
|-------|------|---------------------------------------|---|--|---|--------------------------------------|---|---|------------------------------------|--|---|---|
| WA    | 2015 | North of Cape Falcon, OR              | 2151  | 18814                                    | 3   | 0.0014                               | 0.0004                                  | 27  | 0.00                               | 0.0000   | 0.0000  | 0.00  |
| OR    | 2012 | Cape Blanco, OR to Cape Mendocino, CA | 1482  | 1669                                     | --  | --                                   | --                                      | --  | --                                 | --   | --  | --  |
| CA    | 2016 | Cape Blanco, OR to Cape Mendocino, CA | 130   | 885                                      | --  | --                                   | --                                      | --  | --                                 | --   | --  | --  |

Table 13. Observed vessels, trips, hauls, catch, and salmon interactions, as well as fleet landings, stratified by state, year, and area for the nearshore fishery. Only effort north of lat 40°10'N is shown, as no salmon interactions occurred south of that line.

| Year | Area                                  | Season   | Observed Nearshore Species Catch (mt) | Fleet Nearshore Species Landings (mt) | Observed Vessels | Observed Trips | Observed Hauls | Observed Hauls that Encountered Salmon | Percent of Observed Hauls that Encountered Salmon |
|------|---------------------------------------|----------|---------------------------------------|---------------------------------------|------------------|----------------|----------------|--|---|
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 0                                     | 12                                    | 3                | 5              | 9              | --                                     | --  |
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 3                                     | 63                                    | 5                | 19             | 45             | 1                                      | 2   |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | All Year | 8                                     | 133                                   | 22               | 79             | 166            | 3                                      | 2   |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 5                                     | 35                                    | 6                | 36             | 58             | 1                                      | 2   |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 10                                    | 122                                   | 23               | 106            | 138            | 1                                      | 1   |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 2                                     | 37                                    | 8                | 24             | 35             | --                                     | --  |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 6                                     | 74                                    | 24               | 57             | 62             | 1                                      | 2   |
| 2005 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 2                                     | 44                                    | 8                | 23             | 27             | 1                                      | 4   |
| 2005 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 10                                    | 125                                   | 28               | 96             | 124            | --                                     | --  |
| 2006 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 1                                     | 12                                    | 8                | 17             | 23             | --                                     | --  |
| 2006 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 11                                    | 92                                    | 25               | 109            | 181            | 1                                      | 1   |
| 2006 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 2                                     | 21                                    | 12               | 21             | 25             | --                                     | --  |
| 2006 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 12                                    | 125                                   | 37               | 133            | 196            | 1                                      | 1   |
| 2007 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 1                                     | 16                                    | 7                | 14             | 18             | --                                     | --  |
| 2007 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 10                                    | 107                                   | 17               | 92             | 152            | 1                                      | 1   |
| 2007 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 4                                     | 40                                    | 13               | 38             | 42             | --                                     | --  |
| 2007 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 10                                    | 128                                   | 19               | 91             | 134            | --                                     | --  |
| 2008 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 3                                     | 30                                    | 13               | 29             | 38             | --                                     | --  |
| 2008 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 8                                     | 103                                   | 20               | 69             | 80             | 2                                      | 3   |
| 2008 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 4                                     | 56                                    | 13               | 37             | 41             | --                                     | --  |
| 2008 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 6                                     | 125                                   | 16               | 66             | 78             | --                                     | --  |
| 2009 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 2                                     | 46                                    | 11               | 21             | 26             | --                                     | --  |
| 2009 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 10                                    | 114                                   | 20               | 87             | 151            | 6                                      | 4   |
| 2009 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 4                                     | 40                                    | 14               | 44             | 50             | 1                                      | 2   |
| 2009 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 4                                     | 124                                   | 16               | 39             | 41             | --                                     | --  |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 3                                     | 34                                    | 13               | 29             | 43             | --                                     | --  |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 6                                     | 94                                    | 23               | 71             | 86             | 3                                      | 3   |
| 2010 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 1                                     | 16                                    | 10               | 13             | 15             | --                                     | --  |

Table 13 (continued). Observed vessels, trips, hauls, catch, and salmon interactions, as well as fleet landings, for the nearshore fishery.

| Year | Area                                  | Season | Observed<br>Nearshore<br>Species Catch<br>(mt) | Fleet<br>Nearshore<br>Species<br>Landings<br>(mt) | Observed<br>Vessels | Observed<br>Trips | Observed<br>Hauls | Observed<br>Hauls that<br>Encountered<br>Salmon | Percent of<br>Observed<br>Hauls that<br>Encountered<br>Salmon |
|------|---------------------------------------|--------|--|---|---------------------|-------------------|-------------------|---|---|
| 2010 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 8  | 85  | 27                  | 86                | 105               | 2   | 2   |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 3  | 37  | 15                  | 31                | 40                | --  | --  |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 8  | 107   | 26                  | 105               | 125               | 3   | 2   |
| 2011 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 2  | 15  | 13                  | 30                | 36                | --  | --  |
| 2011 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 9  | 70  | 27                  | 89                | 115               | 2   | 2   |
| 2012 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 3  | 33  | 22                  | 41                | 53                | 2   | 4   |
| 2012 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 13   | 118   | 28                  | 135               | 165               | 3   | 2   |
| 2012 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 2  | 11  | 9                   | 21                | 23                | 2   | 9   |
| 2012 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 10   | 64  | 20                  | 70                | 98                | 2   | 2   |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 5  | 44  | 19                  | 60                | 70                | 2   | 3   |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 6  | 105   | 26                  | 68                | 93                | 4   | 4   |
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 4  | 22  | 17                  | 47                | 51                | 5   | 10  |
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 8  | 71  | 24                  | 68                | 88                | 1   | 1   |
| 2014 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 2  | 41  | 14                  | 21                | 22                | 1   | 5   |
| 2014 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 9  | 105   | 28                  | 81                | 88                | 5   | 6   |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 3  | 20  | 12                  | 35                | 37                | 1   | 3   |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 8  | 77  | 25                  | 68                | 87                | 1   | 1   |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 4  | 52  | 19                  | 40                | 42                | --  | --  |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 12   | 103   | 30                  | 100               | 133               | 3   | 2   |
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 6  | 59  | 9                   | 43                | 53                | 4   | 8   |
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 12   | 109   | 19                  | 82                | 96                | 1   | 1   |
| 2016 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 4  | 32  | 15                  | 38                | 40                | 1   | 3   |
| 2016 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 11   | 97  | 29                  | 100               | 125               | --  | --  |
| 2016 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 4  | 25  | 7                   | 26                | 27                | 1   | 4   |
| 2016 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 11   | 94  | 20                  | 92                | 116               | 1   | 1   |

Table 14a. Observed and expanded Chinook salmon bycatch in the nearshore fishery.

| Year | Area                                  | Season   | Observed<br>Nearshore<br>Species Catch<br>(mt) | Fleet<br>Nearshore<br>Species<br>Landings (mt) | Observed<br>Chinook<br>Count<br>(Individuals) | Observed<br>Bycatch<br>Chinook Ratio | Observed<br>Bycatch<br>Chinook Ratio<br>SE | Expanded<br>Chinook Catch<br>(Individuals) | Observed<br>Chinook<br>Weight (mt) | Observed<br>Bycatch<br>Chinook<br>Weight Ratio | Observed<br>Bycatch<br>Chinook<br>Weight Ratio<br>SE | Expanded<br>Chinook Catch<br>Weight (mt) |
|------|---------------------------------------|----------|--|--|---|--------------------------------------|--|--|------------------------------------|--|--|--|
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 3  | 63   | 1   | 0.3468                               | 0.0787                                     | 22   | 0.01                               | 0.0020   | 0.0004   | 0.12                                     |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | All Year | 8  | 133  | 2   | 0.2445                               | 0.0313                                     | 33   | 0.00                               | 0.0005   | 0.0001   | 0.06                                     |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 5  | 35   | 1   | 0.1903                               | 0.0297                                     | 7  | 0.00                               | 0.0003   | 0.0001   | 0.01                                     |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 10   | 122  | --  | --                                   | --   | --   | --                                 | --   | --   | --                                       |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 6  | 74   | 1   | 0.1800                               | 0.0268                                     | 13   | 0.01                               | 0.0010   | 0.0001   | 0.07                                     |
| 2005 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 2  | 44   | 1   | 0.4108                               | 0.0899                                     | 18   | 0.00                               | 0.0001   | 0.0000   | 0.00                                     |
| 2006 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 11   | 92   | 1   | 0.0916                               | 0.0091                                     | 8  | 0.02                               | 0.0015   | 0.0001   | 0.13                                     |
| 2006 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 12   | 125  | 1   | 0.0860                               | 0.0096                                     | 11   | 0.00                               | 0.0001   | 0.0000   | 0.01                                     |
| 2007 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 10   | 107  | --  | --                                   | --   | --   | --                                 | --   | --   | --                                       |
| 2008 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 8  | 103  | --  | --                                   | --   | --   | --                                 | --   | --   | --                                       |
| 2009 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 10   | 114  | 1   | 0.1008                               | 0.0114                                     | 12   | 0.00                               | 0.0004   | 0.0000   | 0.04                                     |
| 2009 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 4  | 40   | 1   | 0.2597                               | 0.0480                                     | 10   | 0.00                               | 0.0011   | 0.0002   | 0.05                                     |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 6  | 94   | 1   | 0.1665                               | 0.0228                                     | 16   | 0.01                               | 0.0015   | 0.0002   | 0.14                                     |
| 2010 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 8  | 85   | --  | --                                   | --   | --   | --                                 | --   | --   | --                                       |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 8  | 107  | --  | --                                   | --   | --   | --                                 | --   | --   | --                                       |
| 2011 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 9  | 70   | 1   | 0.1100                               | 0.0133                                     | 8  | 0.01                               | 0.0007   | 0.0001   | 0.05                                     |
| 2012 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 3  | 33   | 2   | 0.7197                               | 0.1210                                     | 24   | 0.00                               | 0.0016   | 0.0003   | 0.05                                     |
| 2012 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 13   | 118  | 2   | 0.1565                               | 0.0148                                     | 18   | 0.01                               | 0.0011   | 0.0003   | 0.13                                     |
| 2012 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 2  | 11   | 1   | 0.6260                               | 0.1677                                     | 7  | 0.01                               | 0.0043   | 0.0011   | 0.05                                     |
| 2012 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 10   | 64   | 2   | 0.2105                               | 0.0279                                     | 14   | 0.01                               | 0.0014   | 0.0002   | 0.09                                     |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 5  | 44   | 3   | 0.6489                               | 0.1823                                     | 29   | 0.02                               | 0.0051   | 0.0015   | 0.22                                     |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 6  | 105  | 3   | 0.5239                               | 0.0673                                     | 55   | 0.02                               | 0.0028   | 0.0005   | 0.30                                     |
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 4  | 22   | 5   | 1.3446                               | 0.2343                                     | 29   | 0.02                               | 0.0042   | 0.0013   | 0.09                                     |
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 8  | 71   | 1   | 0.1300                               | 0.0194                                     | 9  | 0.01                               | 0.0012   | 0.0002   | 0.08                                     |
| 2014 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 2  | 41   | 1   | 0.5466                               | 0.1329                                     | 22   | 0.01                               | 0.0050   | 0.0012   | 0.20                                     |
| 2014 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 9  | 105  | 1   | 0.1128                               | 0.0143                                     | 12   | 0.01                               | 0.0009   | 0.0001   | 0.10                                     |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 3  | 20   | --  | --                                   | --   | --   | --                                 | --   | --   | --                                       |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 8  | 77   | --  | --                                   | --   | --   | --                                 | --   | --   | --                                       |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 12   | 103  | --  | --                                   | --   | --   | --                                 | --   | --   | --                                       |
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 6  | 59   | 3   | 0.5292                               | 0.0939                                     | 31   | 0.01                               | 0.0017   | 0.0006   | 0.10                                     |
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 12   | 109  | 1   | 0.0834                               | 0.0111                                     | 9  | 0.01                               | 0.0006   | 0.0001   | 0.06                                     |
| 2016 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 4  | 32   | --  | --                                   | --   | --   | --                                 | --   | --   | --                                       |
| 2016 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 4  | 25   | 1   | 0.2337                               | 0.0539                                     | 6  | 0.00                               | 0.0004   | 0.0001   | 0.01                                     |
| 2016 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 11   | 94   | 1   | 0.0929                               | 0.0128                                     | 9  | 0.01                               | 0.0006   | 0.0001   | 0.06                                     |

Table 14b. Observed and expanded coho salmon bycatch in the nearshore fishery.

| Year | Area                                  | Season   | Observed<br>Nearshore<br>Species Catch<br>(mt) | Fleet<br>Nearshore<br>Species<br>Landings (mt) | Observed<br>Coho Count<br>(Individuals) | Observed<br>Bycatch Coho<br>Ratio | Observed<br>Bycatch Coho<br>Ratio SE | Expanded<br>Coho Catch<br>(Individuals) | Observed<br>Coho Weight<br>(mt) | Observed<br>Bycatch Coho<br>Weight Ratio | Observed<br>Bycatch<br>Coho<br>Weight Ratio<br>SE | Expanded<br>Coho Catch<br>Weight (mt) |
|------|---------------------------------------|----------|--|--|---|-----------------------------------|--------------------------------------|---|---------------------------------|--|---|---------------------------------------|
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 3  | 63   | --                                      | --                                | --                                   | --                                      | --                              | --                                       | --  | --                                    |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | All Year | 8  | 133  | 2                                       | 0.2445                            | 0.0313                               | 33                                      | 0.01                            | 0.0011                                   | 0.0002  | 0.14                                  |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 5  | 35   | --                                      | --                                | --                                   | --                                      | --                              | --                                       | --  | --                                    |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 10   | 122  | 1                                       | 0.0986                            | 0.0108                               | 12                                      | 0.00                            | 0.0004                                   | 0.0000  | 0.05                                  |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 6  | 74   | --                                      | --                                | --                                   | --                                      | --                              | --                                       | --  | --                                    |
| 2005 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 2  | 44   | --                                      | --                                | --                                   | --                                      | --                              | --                                       | --  | --                                    |
| 2006 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 11   | 92   | --                                      | --                                | --                                   | --                                      | --                              | --                                       | --  | --                                    |
| 2006 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 12   | 125  | --                                      | --                                | --                                   | --                                      | --                              | --                                       | --  | --                                    |
| 2007 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 10   | 107  | 1                                       | 0.1041                            | 0.0114                               | 11                                      | 0.00                            | 0.0001                                   | 0.0000  | 0.01                                  |
| 2008 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 8  | 103  | 3                                       | 0.3960                            | 0.1066                               | 41                                      | 0.01                            | 0.0017                                   | 0.0006  | 0.17                                  |
| 2009 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 10   | 114  | 6                                       | 0.6049                            | 0.1128                               | 69                                      | 0.02                            | 0.0017                                   | 0.0004  | 0.19                                  |
| 2009 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 4  | 40   | --                                      | --                                | --                                   | --                                      | --                              | --                                       | --  | --                                    |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 6  | 94   | 2                                       | 0.3331                            | 0.0457                               | 31                                      | 0.01                            | 0.0017                                   | 0.0002  | 0.16                                  |
| 2010 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 8  | 85   | 1                                       | 0.1177                            | 0.0152                               | 10                                      | 0.01                            | 0.0006                                   | 0.0001  | 0.05                                  |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 8  | 107  | 4                                       | 0.5153                            | 0.1202                               | 55                                      | 0.01                            | 0.0016                                   | 0.0005  | 0.17                                  |
| 2011 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 9  | 70   | 1                                       | 0.1100                            | 0.0133                               | 8                                       | 0.00                            | 0.0005                                   | 0.0001  | 0.04                                  |
| 2012 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 3  | 33   | --                                      | --                                | --                                   | --                                      | --                              | --                                       | --  | --                                    |
| 2012 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 13   | 118  | 1                                       | 0.0782                            | 0.0074                               | 9                                       | 0.00                            | 0.0004                                   | 0.0000  | 0.04                                  |
| 2012 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 2  | 11   | 1                                       | 0.6260                            | 0.1677                               | 7                                       | 0.00                            | 0.0017                                   | 0.0005  | 0.02                                  |
| 2012 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 10   | 64   | --                                      | --                                | --                                   | --                                      | --                              | --                                       | --  | --                                    |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 5  | 44   | --                                      | --                                | --                                   | --                                      | --                              | --                                       | --  | --                                    |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 6  | 105  | 1                                       | 0.1746                            | 0.0226                               | 18                                      | 0.00                            | 0.0006                                   | 0.0001  | 0.06                                  |
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 4  | 22   | --                                      | --                                | --                                   | --                                      | --                              | --                                       | --  | --                                    |
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 8  | 71   | --                                      | --                                | --                                   | --                                      | --                              | --                                       | --  | --                                    |
| 2014 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 2  | 41   | --                                      | --                                | --                                   | --                                      | --                              | --                                       | --  | --                                    |
| 2014 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 9  | 105  | 5                                       | 0.5642                            | 0.1208                               | 59                                      | 0.01                            | 0.0016                                   | 0.0003  | 0.17                                  |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 3  | 20   | 1                                       | 0.3582                            | 0.0709                               | 7                                       | 0.00                            | 0.0003                                   | 0.0001  | 0.01                                  |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 8  | 77   | --                                      | --                                | --                                   | --                                      | --                              | --                                       | --  | --                                    |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 12   | 103  | 2                                       | 0.1737                            | 0.0187                               | 18                                      | 0.00                            | 0.0004                                   | 0.0002  | 0.04                                  |
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 6  | 59   | 1                                       | 0.1764                            | 0.0317                               | 10                                      | 0.00                            | 0.0001                                   | 0.0000  | 0.01                                  |
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 12   | 109  | --                                      | --                                | --                                   | --                                      | --                              | --                                       | --  | --                                    |
| 2016 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 4  | 32   | 1                                       | 0.2741                            | 0.0523                               | 9                                       | 0.00                            | 0.0001                                   | 0.0000  | 0.00                                  |
| 2016 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 4  | 25   | --                                      | --                                | --                                   | --                                      | --                              | --                                       | --  | --                                    |
| 2016 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 11   | 94   | --                                      | --                                | --                                   | --                                      | --                              | --                                       | --  | --                                    |



Table 14c. Observed and expanded unspecified bycatch in the nearshore fishery.

| Year | Area                                  | Season   | Observed<br>Nearshore<br>Species Catch<br>(mt) | Fleet<br>Nearshore<br>Species<br>Landings (mt) | Observed<br>Unspecified<br>Count<br>(Individuals) | Observed<br>Bycatch<br>Unspecified<br>Ratio | Observed<br>Bycatch<br>Unspecified<br>Ratio SE | Expanded<br>Unspecified<br>Catch<br>(Individuals) | Observed<br>Unspecified<br>Weight (mt) | Observed<br>Bycatch<br>Unspecified<br>Weight Ratio | Observed<br>Bycatch<br>Unspecified<br>Weight Ratio<br>SE | Expanded<br>Unspecified<br>Catch Weight<br>(mt) |
|------|---------------------------------------|----------|--|--|---|---|--|---|--|--|--|---|
| 2003 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 3  | 63   | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2004 | Cape Falcon, OR to Cape Blanco, OR    | All Year | 8  | 133  | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 5  | 35   | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2004 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 10   | 122  | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2005 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 6  | 74   | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2005 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 2  | 44   | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2006 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 11   | 92   | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2006 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 12   | 125  | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2007 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 10   | 107  | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2008 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 8  | 103  | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2009 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 10   | 114  | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2009 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 4  | 40   | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2010 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 6  | 94   | 1   | 0.1665                                      | 0.0228   | 16  | 0.00                                   | 0.0008   | 0.0001   | 0.07  |
| 2010 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 8  | 85   | 1   | 0.1177                                      | 0.0152   | 10  | 0.01                                   | 0.0011   | 0.0001   | 0.09  |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 8  | 107  | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2011 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 9  | 70   | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2012 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 3  | 33   | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2012 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 13   | 118  | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2012 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 2  | 11   | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2012 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 10   | 64   | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 5  | 44   | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 6  | 105  | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 4  | 22   | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 8  | 71   | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2014 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 2  | 41   | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2014 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 9  | 105  | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 3  | 20   | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 8  | 77   | 1   | 0.1193                                      | 0.0170   | 9   | 0.01                                   | 0.0008   | 0.0001   | 0.06  |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 12   | 103  | 1   | 0.0868                                      | 0.0094   | 9   | 0.00                                   | 0.0004   | 0.0000   | 0.04  |
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 6  | 59   | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 12   | 109  | 1   | 0.0834                                      | 0.0111   | 9   | 0.01                                   | 0.0005   | 0.0001   | 0.05  |
| 2016 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 4  | 32   | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2016 | Cape Blanco, OR to Cape Mendocino, CA | Winter   | 4  | 25   | --  | --  | --   | --  | --                                     | --   | --   | --  |
| 2016 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 11   | 94   | --  | --  | --   | --  | --                                     | --   | --   | --  |

Table 15. Observed vessels, trips, hauls, catch, and salmon, as well as fleet landings, stratified by year, season, depth bin, and salmon management area for catch shares non-hake bottom trawl, including non-hake midwater trawl in 2011 and LE California halibut in 2011 and 2013.

| Year | Area                                  | Season | Depth Interval (fth) | Fleet Groundfish Landings (mt) | Observed Vessels | Observed Trips | Observed Hauls | Observed Hauls that Encountered Salmon | Percent of Observed Hauls that Encountered Salmon |
|------|---------------------------------------|--------|----------------------|--------------------------------|------------------|----------------|----------------|--|---|
| 2011 | North of Cape Falcon, OR              | Winter | 0-125                | 336                            | 6                | 27             | 223            | 2                                      | 1   |
| 2011 | North of Cape Falcon, OR              | Winter | 125-250              | 1099                           | 18               | 132            | 402            | 3                                      | 1   |
| 2011 | North of Cape Falcon, OR              | Winter | 250+                 | 1609                           | 19               | 150            | 817            | --                                     | --  |
| 2011 | North of Cape Falcon, OR              | Summer | 0-125                | 1704                           | 17               | 129            | 1542           | 11                                     | 1   |
| 2011 | North of Cape Falcon, OR              | Summer | 125-250              | 1292                           | 16               | 95             | 471            | 1                                      | 0   |
| 2011 | North of Cape Falcon, OR              | Summer | 250+                 | 701                            | 17               | 100            | 484            | 1                                      | 0   |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-250                | 898                            | 30               | 111            | 364            | 12                                     | 3   |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1617                           | 31               | 165            | 740            | 2                                      | 0   |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 147                            | 8                | 47             | 315            | --                                     | --  |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 544                            | 17               | 75             | 271            | 1                                      | 0   |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 250+                 | 673                            | 17               | 84             | 384            | --                                     | --  |
| 2011 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 288                            | 12               | 46             | 98             | 8                                      | 8   |
| 2011 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 1219                           | 19               | 119            | 516            | --                                     | --  |
| 2011 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-250                | 656                            | 16               | 94             | 237            | --                                     | --  |
| 2011 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 250+                 | 1320                           | 14               | 121            | 462            | --                                     | --  |
| 2011 | South of Cape Mendocino, CA           | Winter | 0-125                | 28                             | 4                | 9              | 28             | --                                     | --  |
| 2011 | South of Cape Mendocino, CA           | Winter | 125-250              | 163                            | 8                | 36             | 106            | --                                     | --  |
| 2011 | South of Cape Mendocino, CA           | Winter | 250+                 | 288                            | 8                | 50             | 188            | --                                     | --  |
| 2011 | South of Cape Mendocino, CA           | Summer | 0-125                | 386                            | 9                | 136            | 542            | 3                                      | 1   |
| 2011 | South of Cape Mendocino, CA           | Summer | 125-250              | 315                            | 12               | 80             | 186            | --                                     | --  |
| 2011 | South of Cape Mendocino, CA           | Summer | 250+                 | 929                            | 13               | 127            | 525            | --                                     | --  |
| 2012 | North of Cape Falcon, OR              | Winter | 0-125                | 207                            | 9                | 21             | 146            | 1                                      | 1   |
| 2012 | North of Cape Falcon, OR              | Winter | 125-250              | 1388                           | 18               | 119            | 497            | 16                                     | 3   |
| 2012 | North of Cape Falcon, OR              | Winter | 250+                 | 1337                           | 20               | 129            | 626            | 1                                      | 0   |
| 2012 | North of Cape Falcon, OR              | Summer | 0-125                | 2675                           | 15               | 157            | 1936           | 7                                      | 0   |
| 2012 | North of Cape Falcon, OR              | Summer | 125-250              | 928                            | 14               | 85             | 379            | 3                                      | 1   |
| 2012 | North of Cape Falcon, OR              | Summer | 250+                 | 397                            | 13               | 67             | 251            | --                                     | --  |
| 2012 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-250                | 1054                           | 32               | 143            | 405            | 23                                     | 6   |

Table 15 (continued). Observed vessels, trips, hauls, catch, and salmon, as well as fleet landings, for catch shares non-hake bottom trawl.

| Year | Area                                  | Season | Depth Interval (fth) | Fleet Groundfish Landings (mt) | Observed Vessels | Observed Trips | Observed Hauls | Observed Hauls that Encountered Salmon | Percent of Observed Hauls that Encountered Salmon |
|------|---------------------------------------|--------|----------------------|--------------------------------|------------------|----------------|----------------|--|---|
| 2012 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1655                           | 30               | 164            | 746            | 10                                     | 1   |
| 2012 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 125                            | 8                | 42             | 274            | --                                     | --  |
| 2012 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 476                            | 16               | 51             | 205            | --                                     | --  |
| 2012 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 250+                 | 704                            | 20               | 77             | 385            | --                                     | --  |
| 2012 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-250                | 220                            | 18               | 42             | 83             | 6                                      | 7   |
| 2012 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 1212                           | 19               | 104            | 423            | --                                     | --  |
| 2012 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 52                             | 4                | 11             | 57             | --                                     | --  |
| 2012 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 125-250              | 366                            | 12               | 60             | 145            | --                                     | --  |
| 2012 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 250+                 | 1188                           | 13               | 101            | 445            | --                                     | --  |
| 2012 | South of Cape Mendocino, CA           | Winter | 0-125                | 44                             | 3                | 27             | 116            | 1                                      | 1   |
| 2012 | South of Cape Mendocino, CA           | Winter | 125-250              | 217                            | 11               | 53             | 143            | --                                     | --  |
| 2012 | South of Cape Mendocino, CA           | Winter | 250+                 | 594                            | 11               | 68             | 329            | --                                     | --  |
| 2012 | South of Cape Mendocino, CA           | Summer | 0-125                | 288                            | 8                | 110            | 509            | --                                     | --  |
| 2012 | South of Cape Mendocino, CA           | Summer | 125-250              | 275                            | 9                | 72             | 199            | --                                     | --  |
| 2012 | South of Cape Mendocino, CA           | Summer | 250+                 | 939                            | 9                | 108            | 501            | --                                     | --  |
| 2013 | North of Cape Falcon, OR              | Winter | 0-125                | 318                            | 12               | 31             | 229            | 9                                      | 4   |
| 2013 | North of Cape Falcon, OR              | Winter | 125-250              | 1848                           | 17               | 133            | 814            | 10                                     | 1   |
| 2013 | North of Cape Falcon, OR              | Winter | 250+                 | 1392                           | 17               | 145            | 747            | 1                                      | 0   |
| 2013 | North of Cape Falcon, OR              | Summer | 0-125                | 2445                           | 12               | 182            | 1805           | 17                                     | 1   |
| 2013 | North of Cape Falcon, OR              | Summer | 125-250              | 717                            | 12               | 80             | 347            | --                                     | --  |
| 2013 | North of Cape Falcon, OR              | Summer | 250+                 | 420                            | 10               | 75             | 263            | --                                     | --  |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-125                | 7                              | 5                | 5              | 12             | --                                     | --  |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 1591                           | 29               | 181            | 631            | 11                                     | 2   |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1839                           | 29               | 184            | 923            | 3                                      | 0   |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 158                            | 9                | 61             | 242            | 1                                      | 0   |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 366                            | 14               | 48             | 177            | --                                     | --  |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 250+                 | 573                            | 17               | 69             | 311            | --                                     | --  |
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 355                            | 14               | 62             | 123            | 17                                     | 14  |
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 1320                           | 22               | 127            | 534            | 4                                      | 1   |

Table 15 (continued). Observed vessels, trips, hauls, catch, and salmon, as well as fleet landings, for catch shares non-hake bottom trawl.

| Year | Area                                  | Season | Depth Interval (fth) | Fleet Groundfish Landings (mt) | Observed Vessels | Observed Trips | Observed Hauls | Observed Hauls that Encountered Salmon | Percent of Observed Hauls that Encountered Salmon |
|------|---------------------------------------|--------|----------------------|--------------------------------|------------------|----------------|----------------|--|---|
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 228                            | 4                | 35             | 158            | 6                                      | 4   |
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 125-250              | 342                            | 13               | 51             | 131            | --                                     | --  |
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 250+                 | 1415                           | 14               | 103            | 474            | --                                     | --  |
| 2013 | South of Cape Mendocino, CA           | Winter | 0-125                | 105                            | 7                | 27             | 168            | 3                                      | 2   |
| 2013 | South of Cape Mendocino, CA           | Winter | 125-250              | 216                            | 10               | 64             | 136            | --                                     | --  |
| 2013 | South of Cape Mendocino, CA           | Winter | 250+                 | 571                            | 11               | 83             | 333            | --                                     | --  |
| 2013 | South of Cape Mendocino, CA           | Summer | 0-125                | 511                            | 9                | 125            | 544            | 1                                      | 0   |
| 2013 | South of Cape Mendocino, CA           | Summer | 125-250              | 227                            | 9                | 81             | 194            | --                                     | --  |
| 2013 | South of Cape Mendocino, CA           | Summer | 250+                 | 881                            | 12               | 123            | 523            | --                                     | --  |
| 2014 | North of Cape Falcon, OR              | Winter | 0-125                | 307                            | 7                | 37             | 282            | 8                                      | 3   |
| 2014 | North of Cape Falcon, OR              | Winter | 125-250              | 1012                           | 12               | 89             | 400            | 10                                     | 3   |
| 2014 | North of Cape Falcon, OR              | Winter | 250+                 | 1251                           | 14               | 106            | 498            | 1                                      | 0   |
| 2014 | North of Cape Falcon, OR              | Summer | 0-125                | 2113                           | 11               | 139            | 1570           | 24                                     | 2   |
| 2014 | North of Cape Falcon, OR              | Summer | 125-250              | 423                            | 9                | 53             | 207            | --                                     | --  |
| 2014 | North of Cape Falcon, OR              | Summer | 250+                 | 305                            | 10               | 50             | 183            | --                                     | --  |
| 2014 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 1523                           | 29               | 163            | 453            | 60                                     | 13  |
| 2014 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1569                           | 29               | 155            | 694            | 23                                     | 3   |
| 2014 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 163                            | 8                | 49             | 239            | --                                     | --  |
| 2014 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 252                            | 12               | 36             | 116            | --                                     | --  |
| 2014 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 250+                 | 333                            | 11               | 41             | 171            | --                                     | --  |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-250                | 338                            | 19               | 69             | 121            | 18                                     | 15  |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 1725                           | 17               | 124            | 629            | 4                                      | 1   |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 325                            | 4                | 43             | 208            | 2                                      | 1   |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 125-250              | 267                            | 10               | 50             | 117            | --                                     | --  |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 250+                 | 962                            | 11               | 78             | 328            | 1                                      | 0   |
| 2014 | South of Cape Mendocino, CA           | Winter | 0-125                | 287                            | 7                | 55             | 309            | 51                                     | 17  |
| 2014 | South of Cape Mendocino, CA           | Winter | 125-250              | 219                            | 10               | 61             | 123            | 2                                      | 2   |
| 2014 | South of Cape Mendocino, CA           | Winter | 250+                 | 621                            | 11               | 95             | 372            | 1                                      | 0   |
| 2014 | South of Cape Mendocino, CA           | Summer | 0-125                | 314                            | 10               | 100            | 457            | 9                                      | 2   |

Table 15 (continued). Observed vessels, trips, hauls, catch, and salmon, as well as fleet landings, for catch shares non-hake bottom trawl.

| Year | Area                                  | Season | Depth Interval (fth) | Fleet Groundfish Landings (mt) | Observed Vessels | Observed Trips | Observed Hauls | Observed Hauls that Encountered Salmon | Percent of Observed Hauls that Encountered Salmon |
|------|---------------------------------------|--------|----------------------|--------------------------------|------------------|----------------|----------------|--|---|
| 2014 | South of Cape Mendocino, CA           | Summer | 125-250              | 252                            | 11               | 70             | 187            | --                                     | --  |
| 2014 | South of Cape Mendocino, CA           | Summer | 250+                 | 834                            | 10               | 111            | 469            | --                                     | --  |
| 2015 | North of Cape Falcon, OR              | Winter | 0-125                | 208                            | 9                | 37             | 266            | 6                                      | 2   |
| 2015 | North of Cape Falcon, OR              | Winter | 125-250              | 1785                           | 17               | 121            | 585            | 21                                     | 4   |
| 2015 | North of Cape Falcon, OR              | Winter | 250+                 | 1151                           | 17               | 115            | 471            | 7                                      | 1   |
| 2015 | North of Cape Falcon, OR              | Summer | 0-125                | 2316                           | 9                | 135            | 1563           | 10                                     | 1   |
| 2015 | North of Cape Falcon, OR              | Summer | 125-250              | 370                            | 9                | 48             | 175            | 2                                      | 1   |
| 2015 | North of Cape Falcon, OR              | Summer | 250+                 | 260                            | 9                | 45             | 136            | --                                     | --  |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-250                | 1789                           | 31               | 185            | 563            | 90                                     | 16  |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1541                           | 28               | 157            | 646            | 18                                     | 3   |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 174                            | 5                | 47             | 222            | --                                     | --  |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 250                            | 13               | 28             | 107            | 1                                      | 1   |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 250+                 | 146                            | 12               | 24             | 65             | --                                     | --  |
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-250                | 449                            | 15               | 77             | 151            | 33                                     | 22  |
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 1440                           | 20               | 107            | 513            | 10                                     | 2   |
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-250                | 582                            | 8                | 58             | 278            | 1                                      | 0   |
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 250+                 | 927                            | 10               | 56             | 264            | --                                     | --  |
| 2015 | South of Cape Mendocino, CA           | Winter | 0-125                | 115                            | 4                | 21             | 106            | 25                                     | 24  |
| 2015 | South of Cape Mendocino, CA           | Winter | 125-250              | 138                            | 9                | 40             | 115            | 2                                      | 2   |
| 2015 | South of Cape Mendocino, CA           | Winter | 250+                 | 331                            | 10               | 57             | 221            | --                                     | --  |
| 2015 | South of Cape Mendocino, CA           | Summer | 0-125                | 211                            | 7                | 68             | 370            | 18                                     | 5   |
| 2015 | South of Cape Mendocino, CA           | Summer | 125-250              | 266                            | 6                | 53             | 183            | --                                     | --  |
| 2015 | South of Cape Mendocino, CA           | Summer | 250+                 | 753                            | 7                | 71             | 316            | --                                     | --  |
| 2016 | North of Cape Falcon, OR              | Winter | 0-125                | 283                            | 12               | 35             | 239            | 3                                      | 1   |
| 2016 | North of Cape Falcon, OR              | Winter | 125-250              | 1633                           | 16               | 109            | 505            | 17                                     | 3   |
| 2016 | North of Cape Falcon, OR              | Winter | 250+                 | 1113                           | 16               | 98             | 380            | 1                                      | 0   |
| 2016 | North of Cape Falcon, OR              | Summer | 0-125                | 2598                           | 12               | 169            | 1780           | 8                                      | 0   |
| 2016 | North of Cape Falcon, OR              | Summer | 125-250              | 403                            | 11               | 54             | 150            | 1                                      | 1   |
| 2016 | North of Cape Falcon, OR              | Summer | 250+                 | 240                            | 8                | 54             | 143            | 1                                      | 1   |

Table 15 (continued). Observed vessels, trips, hauls, catch, and salmon, as well as fleet landings, for catch shares non-hake bottom trawl.

| Year | Area                                  | Season | Depth Interval (fth) | Fleet Groundfish Landings (mt) | Observed Vessels | Observed Trips | Observed Hauls | Observed Hauls that Encountered Salmon | Percent of Observed Hauls that Encountered Salmon |
|------|---------------------------------------|--------|----------------------|--------------------------------|------------------|----------------|----------------|--|---|
| 2016 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 35                             | 4                | 7              | 25             | --                                     | --  |
| 2016 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 1908                           | 27               | 179            | 519            | 39                                     | 8   |
| 2016 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 205+                 | 1925                           | 28               | 165            | 626            | --                                     | --  |
| 2016 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 184                            | 4                | 35             | 187            | --                                     | --  |
| 2016 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 492                            | 10               | 48             | 242            | --                                     | --  |
| 2016 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 250+                 | 330                            | 12               | 34             | 139            | --                                     | --  |
| 2016 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-250                | 465                            | 13               | 58             | 129            | 11                                     | 9   |
| 2016 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 958                            | 17               | 79             | 279            | 3                                      | 1   |
| 2016 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 219                            | 4                | 24             | 136            | --                                     | --  |
| 2016 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 125-250              | 397                            | 5                | 38             | 132            | --                                     | --  |
| 2016 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 250+                 | 756                            | 8                | 51             | 208            | --                                     | --  |
| 2016 | South of Cape Mendocino, CA           | Winter | 0-125                | 25                             | 4                | 11             | 29             | 4                                      | 14  |
| 2016 | South of Cape Mendocino, CA           | Winter | 125-250              | 125                            | 4                | 27             | 113            | 2                                      | 2   |
| 2016 | South of Cape Mendocino, CA           | Winter | 250+                 | 152                            | 4                | 28             | 111            | --                                     | --  |
| 2016 | South of Cape Mendocino, CA           | Summer | 0-125                | 142                            | 5                | 53             | 238            | 3                                      | 1   |
| 2016 | South of Cape Mendocino, CA           | Summer | 125-250              | 63                             | 4                | 20             | 53             | --                                     | --  |
| 2016 | South of Cape Mendocino, CA           | Summer | 250+                 | 320                            | 5                | 34             | 154            | --                                     | --  |

Table 16a. Observed at-sea, estimated unknown, landed, and total Chinook salmon bycatch in the catch shares non-hake bottom trawl fishery, including non-hake midwater trawl in 2011 and LE California halibut in 2011 to 2013.

| Year | Area                                  | Season | Depth Interval (fth) | Fleet Groundfish Landings (mt) | At-Sea Observed Chinook Bycatch (Individuals) | At-Sea Unknown Chinook Bycatch Estimate (Individuals) | Landed Chinook (Individuals) | Total Chinook Individuals | At-Sea Observed Chinook Bycatch Weight (mt) | At-Sea Unknown Chinook Bycatch Estimate Weight (mt) | Landed Chinook Weight (mt) | Total Chinook Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|---|---|------------------------------|---------------------------|---|---|----------------------------|---------------------------|
| 2011 | North of Cape Falcon, OR              | Winter | 0-125                | 336                            | 2   | 0   | --                           | 2                         | 0.01  | 0.00  | --                         | 0.01                      |
| 2011 | North of Cape Falcon, OR              | Winter | 125-250              | 1099                           | 3   | 0   | --                           | 3                         | 0.01  | 0.00  | --                         | 0.01                      |
| 2011 | North of Cape Falcon, OR              | Summer | 0-125                | 1704                           | 40  | 1   | --                           | 41                        | 0.07  | 0.00  | --                         | 0.07                      |
| 2011 | North of Cape Falcon, OR              | Summer | 125-250              | 1292                           | 1   | 0   | --                           | 1                         | 0.00  | 0.00  | --                         | 0.00                      |
| 2011 | North of Cape Falcon, OR              | Summer | 250+                 | 701                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-250                | 898                            | 103   | 9   | --                           | 112                       | 0.17  | 0.02  | --                         | 0.19                      |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1617                           | 2   | 0   | --                           | 2                         | 0.00  | 0.00  | --                         | 0.00                      |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 544                            | 1   | 0   | --                           | 1                         | 0.00  | 0.00  | --                         | 0.00                      |
| 2011 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 288                            | 8   | 0   | --                           | 8                         | 0.01  | 0.00  | --                         | 0.01                      |
| 2011 | South of Cape Mendocino, CA           | Summer | 0-125                | 386                            | 4   | 0   | --                           | 4                         | 0.01  | 0.00  | --                         | 0.01                      |
| 2012 | North of Cape Falcon, OR              | Winter | 0-125                | 207                            | 1   | 0   | --                           | 1                         | 0.00  | 0.00  | --                         | 0.00                      |
| 2012 | North of Cape Falcon, OR              | Winter | 125-250              | 1388                           | 25  | 1   | --                           | 26                        | 0.07  | 0.00  | --                         | 0.07                      |
| 2012 | North of Cape Falcon, OR              | Winter | 250+                 | 1337                           | 1   | 0   | --                           | 1                         | 0.00  | 0.00  | --                         | 0.00                      |
| 2012 | North of Cape Falcon, OR              | Summer | 0-125                | 2675                           | 7   | 0   | --                           | 7                         | 0.01  | 0.00  | --                         | 0.02                      |
| 2012 | North of Cape Falcon, OR              | Summer | 125-250              | 928                            | 9   | 2   | --                           | 11                        | 0.03  | 0.00  | --                         | 0.03                      |
| 2012 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-250                | 1054                           | 36  | 1   | 0                            | 37                        | 0.07  | 0.00  | 0.00                       | 0.07                      |
| 2012 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1655                           | 2   | 0   | 1                            | 3                         | 0.01  | 0.00  | 0.00                       | 0.01                      |
| 2012 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-250                | 220                            | 216   | 1   | --                           | 217                       | 0.29  | 0.00  | --                         | 0.29                      |
| 2012 | South of Cape Mendocino, CA           | Winter | 0-125                | 44                             | 1   | 0   | --                           | 1                         | 0.00  | 0.00  | --                         | 0.00                      |
| 2013 | North of Cape Falcon, OR              | Winter | 0-125                | 318                            | 35  | 0   | --                           | 35                        | 0.05  | 0.00  | --                         | 0.05                      |
| 2013 | North of Cape Falcon, OR              | Winter | 125-250              | 1848                           | 12  | 0   | --                           | 12                        | 0.02  | 0.00  | --                         | 0.02                      |
| 2013 | North of Cape Falcon, OR              | Winter | 250+                 | 1392                           | 1   | 0   | --                           | 1                         | 0.00  | 0.00  | --                         | 0.00                      |
| 2013 | North of Cape Falcon, OR              | Summer | 0-125                | 2445                           | 121   | 4   | --                           | 125                       | 0.23  | 0.01  | --                         | 0.23                      |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 1591                           | 22  | 1   | --                           | 23                        | 0.06  | 0.00  | --                         | 0.06                      |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1839                           | 11  | 0   | --                           | 11                        | 0.02  | 0.00  | --                         | 0.02                      |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 158                            | 1   | 0   | --                           | 1                         | 0.00  | 0.00  | --                         | 0.00                      |
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 355                            | 94  | 0   | 1                            | 95                        | 0.17  | 0.00  | 0.00                       | 0.17                      |

Table 16a (continued). Observed at-sea, estimated unknown, landed, and total Chinook salmon bycatch in the catch shares non-hake bottom trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Fleet Groundfish Landings (mt) | At-Sea Observed Chinook Bycatch (Individuals) | At-Sea Unknown Chinook Bycatch Estimate (Individuals) | Landed Chinook (Individuals) | Total Chinook Individuals | At-Sea Observed Chinook Bycatch Weight (mt) | At-Sea Unknown Chinook Bycatch Estimate Weight (mt) | Landed Chinook Weight (mt) | Total Chinook Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|---|---|------------------------------|---------------------------|---|---|----------------------------|---------------------------|
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 1320                           | --  | 0   | 0                            | 0                         | --  | 0.00  | 0.00                       | 0.00                      |
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 228                            | 12  | 0   | --                           | 12                        | 0.02  | 0.00  | --                         | 0.02                      |
| 2013 | South of Cape Mendocino, CA           | Winter | 0-125                | 105                            | 1   | --  | --                           | 1                         | 0.00  | --  | --                         | 0.00                      |
| 2013 | South of Cape Mendocino, CA           | Summer | 0-125                | 511                            | 5   | 0   | --                           | 6                         | 0.01  | 0.00  | --                         | 0.01                      |
| 2014 | North of Cape Falcon, OR              | Winter | 0-125                | 307                            | 215   | 0   | --                           | 215                       | 0.23  | 0.00  | --                         | 0.23                      |
| 2014 | North of Cape Falcon, OR              | Winter | 125-250              | 1012                           | 8   | 0   | 1                            | 9                         | 0.02  | 0.00  | 0.00                       | 0.03                      |
| 2014 | North of Cape Falcon, OR              | Winter | 250+                 | 1251                           | 3   | 0   | --                           | 3                         | 0.01  | 0.00  | --                         | 0.01                      |
| 2014 | North of Cape Falcon, OR              | Summer | 0-125                | 2113                           | 165   | 4   | --                           | 169                       | 0.19  | 0.00  | --                         | 0.20                      |
| 2014 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 1523                           | 91  | 2   | 5                            | 98                        | 0.24  | 0.00  | 0.01                       | 0.25                      |
| 2014 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1569                           | 9   | 0   | 3                            | 12                        | 0.03  | 0.00  | 0.00                       | 0.03                      |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-250                | 338                            | 315   | 11  | --                           | 326                       | 0.46  | 0.02  | --                         | 0.47                      |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 1725                           | 4   | 0   | --                           | 4                         | 0.01  | 0.00  | --                         | 0.01                      |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 325                            | 3   | 0   | --                           | 3                         | 0.00  | 0.00  | --                         | 0.01                      |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 250+                 | 962                            | 1   | --  | --                           | 1                         | 0.00  | --  | --                         | 0.00                      |
| 2014 | South of Cape Mendocino, CA           | Winter | 0-125                | 287                            | 117   | 0   | --                           | 117                       | 0.36  | 0.00  | --                         | 0.36                      |
| 2014 | South of Cape Mendocino, CA           | Winter | 125-250              | 219                            | 4   | 0   | --                           | 4                         | 0.01  | 0.00  | --                         | 0.01                      |
| 2014 | South of Cape Mendocino, CA           | Winter | 250+                 | 621                            | 1   | 0   | --                           | 1                         | 0.00  | 0.00  | --                         | 0.00                      |
| 2014 | South of Cape Mendocino, CA           | Summer | 0-125                | 314                            | 22  | 0   | --                           | 22                        | 0.04  | 0.00  | --                         | 0.04                      |
| 2015 | North of Cape Falcon, OR              | Winter | 0-125                | 208                            | 44  | 0   | --                           | 44                        | 0.08  | 0.00  | --                         | 0.08                      |
| 2015 | North of Cape Falcon, OR              | Winter | 125-250              | 1785                           | 44  | 1   | 2                            | 46                        | 0.08  | 0.00  | 0.00                       | 0.09                      |
| 2015 | North of Cape Falcon, OR              | Winter | 250+                 | 1151                           | 5   | 0   | 0                            | 5                         | 0.01  | 0.00  | 0.00                       | 0.01                      |
| 2015 | North of Cape Falcon, OR              | Summer | 0-125                | 2316                           | 64  | 1   | --                           | 65                        | 0.12  | 0.00  | --                         | 0.12                      |
| 2015 | North of Cape Falcon, OR              | Summer | 125-250              | 370                            | 2   | 0   | --                           | 2                         | 0.00  | 0.00  | --                         | 0.00                      |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-250                | 1789                           | 271   | 9   | 6                            | 285                       | 0.49  | 0.02  | 0.01                       | 0.51                      |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1541                           | 12  | 0   | 1                            | 13                        | 0.02  | 0.00  | 0.00                       | 0.02                      |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 250                            | 2   | 0   | --                           | 2                         | 0.00  | 0.00  | --                         | 0.00                      |
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-250                | 449                            | 368   | 1   | 0                            | 369                       | 0.61  | 0.00  | 0.00                       | 0.62                      |
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 1440                           | 9   | 0   | 1                            | 10                        | 0.02  | 0.00  | 0.00                       | 0.02                      |



Table 16a (continued). Observed at-sea, estimated unknown, landed, and total Chinook salmon bycatch in the catch shares non-hake bottom trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Fleet Groundfish Landings (mt) | At-Sea Observed Chinook Bycatch (Individuals) | At-Sea Unknown Chinook Bycatch Estimate (Individuals) | Landed Chinook (Individuals) | Total Chinook Individuals | At-Sea Observed Chinook Bycatch Weight (mt) | At-Sea Unknown Chinook Bycatch Estimate Weight (mt) | Landed Chinook Weight (mt) | Total Chinook Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|---|---|------------------------------|---------------------------|---|---|----------------------------|---------------------------|
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-250                | 582                            | 1   | 0   | --                           | 1                         | 0.00  | 0.00  | --                         | 0.00                      |
| 2015 | South of Cape Mendocino, CA           | Winter | 0-125                | 115                            | 132   | 10  | --                           | 142                       | 0.38  | 0.03  | --                         | 0.40                      |
| 2015 | South of Cape Mendocino, CA           | Winter | 125-250              | 138                            | 2   | 0   | --                           | 2                         | 0.01  | 0.00  | --                         | 0.01                      |
| 2015 | South of Cape Mendocino, CA           | Summer | 0-125                | 211                            | 27  | 0   | --                           | 27                        | 0.10  | 0.00  | --                         | 0.10                      |
| 2016 | North of Cape Falcon, OR              | Winter | 0-125                | 283                            | 10  | 0   | --                           | 10                        | 0.01  | 0.00  | --                         | 0.01                      |
| 2016 | North of Cape Falcon, OR              | Winter | 125-250              | 1633                           | 49  | 1   | --                           | 50                        | 0.14  | 0.00  | --                         | 0.15                      |
| 2016 | North of Cape Falcon, OR              | Winter | 250+                 | 1113                           | 1   | 0   | --                           | 1                         | 0.00  | 0.00  | --                         | 0.00                      |
| 2016 | North of Cape Falcon, OR              | Summer | 0-125                | 2598                           | 17  | 0   | --                           | 18                        | 0.04  | 0.00  | --                         | 0.04                      |
| 2016 | North of Cape Falcon, OR              | Summer | 125-250              | 403                            | 1   | 0   | --                           | 1                         | 0.00  | 0.00  | --                         | 0.00                      |
| 2016 | North of Cape Falcon, OR              | Summer | 250+                 | 240                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2016 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 1908                           | 96  | 2   | --                           | 98                        | 0.21  | 0.00  | --                         | 0.22                      |
| 2016 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-250                | 465                            | 30  | 0   | --                           | 30                        | 0.06  | 0.00  | --                         | 0.06                      |
| 2016 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 958                            | 4   | 0   | --                           | 4                         | 0.01  | 0.00  | --                         | 0.01                      |
| 2016 | South of Cape Mendocino, CA           | Winter | 0-250                | 25                             | 5   | --  | --                           | 5                         | 0.01  | --  | --                         | 0.01                      |
| 2016 | South of Cape Mendocino, CA           | Winter | 250+                 | 125                            | 3   | --  | --                           | 3                         | 0.01  | --  | --                         | 0.01                      |
| 2016 | South of Cape Mendocino, CA           | Summer | 0-250                | 142                            | 2   | 0   | 1                            | 3                         | 0.01  | 0.00  | 0.00                       | 0.01                      |

Table 16b. Observed at-sea, estimated unknown, landed, and total coho salmon bycatch in the catch shares non-hake bottom trawl fishery, including non-hake midwater trawl in 2011 and LE California halibut in 2011 to 2013.

| Year | Area                                  | Season | Depth Interval (fth) | Fleet Groundfish Landings (mt) | At-Sea Coho Bycatch (Individuals) | At-Sea Unknown Coho Bycatch Estimate (Individuals) | Landed Coho (Individuals) | Total Coho Individuals | At-Sea Coho Bycatch Weight (mt) | At-Sea Unknown Coho Bycatch Estimate Weight (mt) | Landed Coho Weight (mt) | Total Coho Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|-----------------------------------|--|---------------------------|------------------------|---------------------------------|--|-------------------------|------------------------|
| 2011 | North of Cape Falcon, OR              | Winter | 0-125                | 336                            | --                                | --   | --                        | --                     | --                              | --   | --                      | --                     |
| 2011 | North of Cape Falcon, OR              | Winter | 125-250              | 1099                           | --                                | --   | --                        | --                     | --                              | --   | --                      | --                     |
| 2011 | North of Cape Falcon, OR              | Summer | 0-125                | 1704                           | --                                | --   | --                        | --                     | --                              | --   | --                      | --                     |
| 2011 | North of Cape Falcon, OR              | Summer | 125-250              | 1292                           | --                                | --   | --                        | --                     | --                              | --   | --                      | --                     |
| 2011 | North of Cape Falcon, OR              | Summer | 250+                 | 701                            | --                                | --   | --                        | --                     | --                              | --   | --                      | --                     |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-250                | 898                            | 16                                | 1  | --                        | 17                     | 0.02                            | 0.00   | --                      | 0.03                   |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1617                           | --                                | --   | --                        | --                     | --                              | --   | --                      | --                     |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 544                            | --                                | --   | --                        | --                     | --                              | --   | --                      | --                     |
| 2011 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 288                            | 2                                 | 0  | --                        | 2                      | 0.01                            | 0.00   | --                      | 0.01                   |
| 2011 | South of Cape Mendocino, CA           | Summer | 0-125                | 386                            | --                                | --   | --                        | --                     | --                              | --   | --                      | --                     |
| 2012 | North of Cape Falcon, OR              | Winter | 0-125                | 207                            | --                                | --   | --                        | --                     | --                              | --   | --                      | --                     |
| 2012 | North of Cape Falcon, OR              | Winter | 125-250              | 1388                           | 4                                 | 0  | --                        | 4                      | 0.01                            | 0.00   | --                      | 0.01                   |
| 2012 | North of Cape Falcon, OR              | Winter | 250+                 | 1337                           | --                                | --   | --                        | --                     | --                              | --   | --                      | --                     |
| 2012 | North of Cape Falcon, OR              | Summer | 0-125                | 2675                           | 1                                 | 0  | --                        | 1                      | 0.00                            | 0.00   | --                      | 0.00                   |
| 2012 | North of Cape Falcon, OR              | Summer | 125-250              | 928                            | 1                                 | 0  | --                        | 1                      | 0.00                            | 0.00   | --                      | 0.00                   |
| 2012 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-250                | 1054                           | 9                                 | 0  | --                        | 9                      | 0.02                            | 0.00   | --                      | 0.02                   |
| 2012 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1655                           | --                                | --   | --                        | --                     | --                              | --   | --                      | --                     |
| 2012 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-250                | 220                            | 11                                | 0  | --                        | 11                     | 0.02                            | 0.00   | --                      | 0.02                   |
| 2012 | South of Cape Mendocino, CA           | Winter | 0-125                | 44                             | --                                | --   | --                        | --                     | --                              | --   | --                      | --                     |
| 2013 | North of Cape Falcon, OR              | Winter | 0-125                | 318                            | --                                | --   | --                        | --                     | --                              | --   | --                      | --                     |
| 2013 | North of Cape Falcon, OR              | Winter | 125-250              | 1848                           | 3                                 | 0  | --                        | 3                      | 0.00                            | 0.00   | --                      | 0.00                   |
| 2013 | North of Cape Falcon, OR              | Winter | 250+                 | 1392                           | --                                | --   | --                        | --                     | --                              | --   | --                      | --                     |
| 2013 | North of Cape Falcon, OR              | Summer | 0-125                | 2445                           | 33                                | 1  | --                        | 34                     | 0.03                            | 0.00   | --                      | 0.03                   |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 1591                           | --                                | --   | --                        | --                     | --                              | --   | --                      | --                     |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1839                           | --                                | --   | --                        | --                     | --                              | --   | --                      | --                     |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 158                            | --                                | --   | --                        | --                     | --                              | --   | --                      | --                     |
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 355                            | 3                                 | 0  | --                        | 3                      | 0.00                            | 0.00   | --                      | 0.00                   |
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 1320                           | --                                | --   | --                        | --                     | --                              | --   | --                      | --                     |

Table 16b (continued). Observed at-sea, estimated unknown, landed, and total coho salmon bycatch in the catch shares non-hake bottom trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Fleet Groundfish Landings (mt) | At-Sea Observed Coho Bycatch (Individuals) | At-Sea Unknown Coho Bycatch Estimate (Individuals) | Landed Coho (Individuals) | Total Coho Individuals | At-Sea Observed Coho Bycatch Weight (mt) | At-Sea Unknown Coho Bycatch Estimate Weight (mt) | Landed Coho Weight (mt) | Total Coho Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|--|--|---------------------------|------------------------|--|--|-------------------------|------------------------|
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 228                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2013 | South of Cape Mendocino, CA           | Winter | 0-125                | 105                            | 9  | --   | --                        | 9                      | 0.02                                     | --   | --                      | 0.02                   |
| 2013 | South of Cape Mendocino, CA           | Summer | 0-125                | 511                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2014 | North of Cape Falcon, OR              | Winter | 0-125                | 307                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2014 | North of Cape Falcon, OR              | Winter | 125-250              | 1012                           | 1  | 0  | --                        | 1                      | 0.00                                     | 0.00   | --                      | 0.00                   |
| 2014 | North of Cape Falcon, OR              | Winter | 250+                 | 1251                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2014 | North of Cape Falcon, OR              | Summer | 0-125                | 2113                           | 4  | 0  | --                        | 4                      | 0.00                                     | 0.00   | --                      | 0.00                   |
| 2014 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 1523                           | 10   | 0  | --                        | 10                     | 0.02                                     | 0.00   | --                      | 0.02                   |
| 2014 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1569                           | 1  | 0  | --                        | 1                      | 0.00                                     | 0.00   | --                      | 0.00                   |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-250                | 338                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 1725                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 325                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 250+                 | 962                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2014 | South of Cape Mendocino, CA           | Winter | 0-125                | 287                            | 2  | 0  | --                        | 2                      | 0.01                                     | 0.00   | --                      | 0.01                   |
| 2014 | South of Cape Mendocino, CA           | Winter | 125-250              | 219                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2014 | South of Cape Mendocino, CA           | Winter | 250+                 | 621                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2014 | South of Cape Mendocino, CA           | Summer | 0-125                | 314                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | North of Cape Falcon, OR              | Winter | 0-125                | 208                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | North of Cape Falcon, OR              | Winter | 125-250              | 1785                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | North of Cape Falcon, OR              | Winter | 250+                 | 1151                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | North of Cape Falcon, OR              | Summer | 0-125                | 2316                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | North of Cape Falcon, OR              | Summer | 125-250              | 370                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-250                | 1789                           | 1  | 0  | --                        | 1                      | 0.00                                     | 0.00   | --                      | 0.00                   |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1541                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 250                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-250                | 449                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 1440                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-250                | 582                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | South of Cape Mendocino, CA           | Winter | 0-125                | 115                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |

Table 16b (continued). Observed at-sea, estimated unknown, landed, and total coho salmon bycatch in the catch shares non-hake bottom trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Fleet Groundfish Landings (mt) | At-Sea Observed Coho Bycatch (Individuals) | At-Sea Unknown Coho Bycatch Estimate (Individuals) | Landed Coho (Individuals) | Total Coho Individuals | At-Sea Observed Coho Bycatch Weight (mt) | At-Sea Unknown Coho Bycatch Estimate Weight (mt) | Landed Coho Weight (mt) | Total Coho Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|--|--|---------------------------|------------------------|--|--|-------------------------|------------------------|
| 2015 | South of Cape Mendocino, CA           | Winter | 125-250              | 138                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | South of Cape Mendocino, CA           | Summer | 0-125                | 211                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2016 | North of Cape Falcon, OR              | Winter | 0-125                | 283                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2016 | North of Cape Falcon, OR              | Winter | 125-250              | 1633                           | 1  | 0  | --                        | 1                      | 0.00                                     | 0.00   | --                      | 0.00                   |
| 2016 | North of Cape Falcon, OR              | Winter | 250+                 | 1113                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2016 | North of Cape Falcon, OR              | Summer | 0-125                | 2598                           | 2  | 0  | --                        | 2                      | 0.00                                     | 0.00   | --                      | 0.00                   |
| 2016 | North of Cape Falcon, OR              | Summer | 125-250              | 403                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2016 | North of Cape Falcon, OR              | Summer | 250+                 | 240                            | 4  | 0  | --                        | 4                      | 0.01                                     | 0.00   | --                      | 0.01                   |
| 2016 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 1908                           | 2  | 0  | --                        | 2                      | 0.00                                     | 0.00   | --                      | 0.00                   |
| 2016 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-250                | 465                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2016 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 958                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2016 | South of Cape Mendocino, CA           | Winter | 0-250                | 25                             | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2016 | South of Cape Mendocino, CA           | Winter | 250+                 | 125                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2016 | South of Cape Mendocino, CA           | Summer | 0-250                | 142                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |

Table 16c. Observed at-sea, estimated unknown, landed, and total pink salmon bycatch in the catch shares non-hake bottom trawl fishery, including non-hake midwater trawl in 2011 and LE California halibut in 2011 to 2013.

| Year | Area                                  | Season | Depth Interval (fth) | Fleet Groundfish Landings (mt) | At-Sea Observed Pink Bycatch (Individuals) | At-Sea Unknown Pink Bycatch Estimate (Individuals) | Landed Pink (Individuals) | Total Pink Individuals | At-Sea Observed Pink Bycatch Weight (mt) | At-Sea Unknown Pink Bycatch Estimate Weight (mt) | Landed Pink Weight (mt) | Total Pink Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|--|--|---------------------------|------------------------|--|--|-------------------------|------------------------|
| 2011 | North of Cape Falcon, OR              | Winter | 0-125                | 336                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2011 | North of Cape Falcon, OR              | Winter | 125-250              | 1099                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2011 | North of Cape Falcon, OR              | Summer | 0-125                | 1704                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2011 | North of Cape Falcon, OR              | Summer | 125-250              | 1292                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2011 | North of Cape Falcon, OR              | Summer | 250+                 | 701                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-250                | 898                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1617                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 544                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2011 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 288                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2011 | South of Cape Mendocino, CA           | Summer | 0-125                | 386                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2012 | North of Cape Falcon, OR              | Winter | 0-125                | 207                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2012 | North of Cape Falcon, OR              | Winter | 125-250              | 1388                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2012 | North of Cape Falcon, OR              | Winter | 250+                 | 1337                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2012 | North of Cape Falcon, OR              | Summer | 0-125                | 2675                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2012 | North of Cape Falcon, OR              | Summer | 125-250              | 928                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2012 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-250                | 1054                           | 2  | 0  | --                        | 2                      | 0.00                                     | 0.00   | --                      | 0.00                   |
| 2012 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1655                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2012 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-250                | 220                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2012 | South of Cape Mendocino, CA           | Winter | 0-125                | 44                             | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2013 | North of Cape Falcon, OR              | Winter | 0-125                | 318                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2013 | North of Cape Falcon, OR              | Winter | 125-250              | 1848                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2013 | North of Cape Falcon, OR              | Winter | 250+                 | 1392                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2013 | North of Cape Falcon, OR              | Summer | 0-125                | 2445                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 1591                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1839                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 158                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 355                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 1320                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |

Table 16c (continued). Observed at-sea, estimated unknown, landed, and total pink salmon bycatch in the catch shares non-hake bottom trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Fleet Groundfish Landings (mt) | At-Sea Observed Pink Bycatch (Individuals) | At-Sea Unknown Pink Bycatch Estimate (Individuals) | Landed Pink (Individuals) | Total Pink Individuals | At-Sea Observed Pink Bycatch Weight (mt) | At-Sea Unknown Pink Bycatch Estimate Weight (mt) | Landed Pink Weight (mt) | Total Pink Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|--|--|---------------------------|------------------------|--|--|-------------------------|------------------------|
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 228                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2013 | South of Cape Mendocino, CA           | Winter | 0-125                | 105                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2013 | South of Cape Mendocino, CA           | Summer | 0-125                | 511                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2014 | North of Cape Falcon, OR              | Winter | 0-125                | 307                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2014 | North of Cape Falcon, OR              | Winter | 125-250              | 1012                           | 2  | 0  | --                        | 2                      | 0.00                                     | 0.00   | --                      | 0.00                   |
| 2014 | North of Cape Falcon, OR              | Winter | 250+                 | 1251                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2014 | North of Cape Falcon, OR              | Summer | 0-125                | 2113                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2014 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 1523                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2014 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1569                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-250                | 338                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 1725                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 325                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 250+                 | 962                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2014 | South of Cape Mendocino, CA           | Winter | 0-125                | 287                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2014 | South of Cape Mendocino, CA           | Winter | 125-250              | 219                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2014 | South of Cape Mendocino, CA           | Winter | 250+                 | 621                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2014 | South of Cape Mendocino, CA           | Summer | 0-125                | 314                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | North of Cape Falcon, OR              | Winter | 0-125                | 208                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | North of Cape Falcon, OR              | Winter | 125-250              | 1785                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | North of Cape Falcon, OR              | Winter | 250+                 | 1151                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | North of Cape Falcon, OR              | Summer | 0-125                | 2316                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | North of Cape Falcon, OR              | Summer | 125-250              | 370                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-250                | 1789                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1541                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 250                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-250                | 449                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 1440                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-250                | 582                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | South of Cape Mendocino, CA           | Winter | 0-125                | 115                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |

Table 16c (continued). Observed at-sea, estimated unknown, landed, and total pink salmon bycatch in the catch shares non-hake bottom trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Fleet Groundfish Landings (mt) | At-Sea Observed Pink Bycatch (Individuals) | At-Sea Unknown Pink Bycatch Estimate (Individuals) | Landed Pink (Individuals) | Total Pink Individuals | At-Sea Observed Pink Bycatch Weight (mt) | At-Sea Unknown Pink Bycatch Estimate Weight (mt) | Landed Pink Weight (mt) | Total Pink Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|--|--|---------------------------|------------------------|--|--|-------------------------|------------------------|
| 2015 | South of Cape Mendocino, CA           | Winter | 125-250              | 138                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2015 | South of Cape Mendocino, CA           | Summer | 0-125                | 211                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2016 | North of Cape Falcon, OR              | Winter | 0-125                | 283                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2016 | North of Cape Falcon, OR              | Winter | 125-250              | 1633                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2016 | North of Cape Falcon, OR              | Winter | 250+                 | 1113                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2016 | North of Cape Falcon, OR              | Summer | 0-125                | 2598                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2016 | North of Cape Falcon, OR              | Summer | 125-250              | 403                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2016 | North of Cape Falcon, OR              | Summer | 250+                 | 240                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2016 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 1908                           | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2016 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-250                | 465                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2016 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 958                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2016 | South of Cape Mendocino, CA           | Winter | 0-250                | 25                             | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2016 | South of Cape Mendocino, CA           | Winter | 250+                 | 125                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| 2016 | South of Cape Mendocino, CA           | Summer | 0-250                | 142                            | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |

Table 16d. Observed at-sea, estimated unknown, landed, and total sockeye salmon bycatch in the catch shares non-hake bottom trawl fishery, including non-hake midwater trawl in 2011 and LE California halibut in 2011 to 2013.

| Year | Area                                  | Season | Depth Interval (fth) | Fleet Groundfish Landings (mt) | At-Sea Observed Sockeye Bycatch (Individuals) | At-Sea Unknown Sockeye Bycatch Estimate (Individuals) | Landed Sockeye (Individuals) | Total Sockeye Individuals | At-Sea Observed Sockeye Bycatch Weight (mt) | At-Sea Unknown Sockeye Bycatch Estimate Weight (mt) | Landed Sockeye Weight (mt) | Total Sockeye Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|---|---|------------------------------|---------------------------|---|---|----------------------------|---------------------------|
| 2011 | North of Cape Falcon, OR              | Winter | 0-125                | 336                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2011 | North of Cape Falcon, OR              | Winter | 125-250              | 1099                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2011 | North of Cape Falcon, OR              | Summer | 0-125                | 1704                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2011 | North of Cape Falcon, OR              | Summer | 125-250              | 1292                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2011 | North of Cape Falcon, OR              | Summer | 250+                 | 701                            | 1   | 0   | --                           | 1                         | 0.00  | 0.00  | --                         | 0.00                      |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-250                | 898                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1617                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 544                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2011 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 288                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2011 | South of Cape Mendocino, CA           | Summer | 0-125                | 386                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2012 | North of Cape Falcon, OR              | Winter | 0-125                | 207                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2012 | North of Cape Falcon, OR              | Winter | 125-250              | 1388                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2012 | North of Cape Falcon, OR              | Winter | 250+                 | 1337                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2012 | North of Cape Falcon, OR              | Summer | 0-125                | 2675                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2012 | North of Cape Falcon, OR              | Summer | 125-250              | 928                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2012 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-250                | 1054                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2012 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1655                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2012 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-250                | 220                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2012 | South of Cape Mendocino, CA           | Winter | 0-125                | 44                             | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2013 | North of Cape Falcon, OR              | Winter | 0-125                | 318                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2013 | North of Cape Falcon, OR              | Winter | 125-250              | 1848                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2013 | North of Cape Falcon, OR              | Winter | 250+                 | 1392                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2013 | North of Cape Falcon, OR              | Summer | 0-125                | 2445                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 1591                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1839                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 158                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 355                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |



Table 16d (continued). Observed at-sea, estimated unknown, landed, and total sockeye salmon bycatch in the catch shares non-hake bottom trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Fleet Groundfish Landings (mt) | At-Sea Observed Sockeye Bycatch (Individuals) | At-Sea Unknown Sockeye Bycatch Estimate (Individuals) | Landed Sockeye (Individuals) | Total Sockeye Individuals | At-Sea Observed Sockeye Bycatch Weight (mt) | At-Sea Unknown Sockeye Bycatch Estimate Weight (mt) | Landed Sockeye Weight (mt) | Total Sockeye Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|---|---|------------------------------|---------------------------|---|---|----------------------------|---------------------------|
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 1320                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 228                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2013 | South of Cape Mendocino, CA           | Winter | 0-125                | 105                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2013 | South of Cape Mendocino, CA           | Summer | 0-125                | 511                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2014 | North of Cape Falcon, OR              | Winter | 0-125                | 307                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2014 | North of Cape Falcon, OR              | Winter | 125-250              | 1012                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2014 | North of Cape Falcon, OR              | Winter | 250+                 | 1251                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2014 | North of Cape Falcon, OR              | Summer | 0-125                | 2113                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2014 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 1523                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2014 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1569                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-250                | 338                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 1725                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 325                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 250+                 | 962                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2014 | South of Cape Mendocino, CA           | Winter | 0-125                | 287                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2014 | South of Cape Mendocino, CA           | Winter | 125-250              | 219                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2014 | South of Cape Mendocino, CA           | Winter | 250+                 | 621                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2014 | South of Cape Mendocino, CA           | Summer | 0-125                | 314                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2015 | North of Cape Falcon, OR              | Winter | 0-125                | 208                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2015 | North of Cape Falcon, OR              | Winter | 125-250              | 1785                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2015 | North of Cape Falcon, OR              | Winter | 250+                 | 1151                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2015 | North of Cape Falcon, OR              | Summer | 0-125                | 2316                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2015 | North of Cape Falcon, OR              | Summer | 125-250              | 370                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-250                | 1789                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1541                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 250                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-250                | 449                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 1440                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |

Table 16d (continued). Observed at-sea, estimated unknown, landed, and total sockeye salmon bycatch in the catch shares non-hake bottom trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Fleet Groundfish Landings (mt) | At-Sea Observed Sockeye Bycatch (Individuals) | At-Sea Unknown Sockeye Bycatch Estimate (Individuals) | Landed Sockeye (Individuals) | Total Sockeye Individuals | At-Sea Observed Sockeye Bycatch Weight (mt) | At-Sea Unknown Sockeye Bycatch Estimate Weight (mt) | Landed Sockeye Weight (mt) | Total Sockeye Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|---|---|------------------------------|---------------------------|---|---|----------------------------|---------------------------|
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-250                | 582                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2015 | South of Cape Mendocino, CA           | Winter | 0-125                | 115                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2015 | South of Cape Mendocino, CA           | Winter | 125-250              | 138                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2015 | South of Cape Mendocino, CA           | Summer | 0-125                | 211                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2016 | North of Cape Falcon, OR              | Winter | 0-125                | 283                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2016 | North of Cape Falcon, OR              | Winter | 125-250              | 1633                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2016 | North of Cape Falcon, OR              | Winter | 250+                 | 1113                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2016 | North of Cape Falcon, OR              | Summer | 0-125                | 2598                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2016 | North of Cape Falcon, OR              | Summer | 125-250              | 403                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2016 | North of Cape Falcon, OR              | Summer | 250+                 | 240                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2016 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 1908                           | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2016 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-250                | 465                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2016 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 958                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2016 | South of Cape Mendocino, CA           | Winter | 0-250                | 25                             | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2016 | South of Cape Mendocino, CA           | Winter | 250+                 | 125                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| 2016 | South of Cape Mendocino, CA           | Summer | 0-250                | 142                            | --  | --  | --                           | --                        | --  | --  | --                         | --                        |

Table 16e. Observed at-sea, estimated unknown, landed, and total unspecified bycatch in the catch shares non-hake bottom trawl fishery, including non-hake midwater trawl in 2011 and LE California halibut in 2011 to 2013.

| Year | Area                                  | Season | Depth Interval (fth) | Fleet Groundfish Landings (mt) | At-Sea Observed Unspecified Bycatch (Individuals) | At-Sea Unknown Unspecified Bycatch Estimate (Individuals) | Landed Unspecified (Individuals) | Total Unspecified Individuals | At-Sea Observed Unspecified Bycatch Weight (mt) | At-Sea Unknown Unspecified Bycatch Estimate Weight (mt) | Landed Unspecified Weight (mt) | Total Unspecified Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|---|---|----------------------------------|-------------------------------|---|---|--------------------------------|-------------------------------|
| 2011 | North of Cape Falcon, OR              | Winter | 0-125                | 336                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2011 | North of Cape Falcon, OR              | Winter | 125-250              | 1099                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2011 | North of Cape Falcon, OR              | Summer | 0-125                | 1704                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2011 | North of Cape Falcon, OR              | Summer | 125-250              | 1292                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2011 | North of Cape Falcon, OR              | Summer | 250+                 | 701                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-250                | 898                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1617                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2011 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 544                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2011 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 288                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2011 | South of Cape Mendocino, CA           | Summer | 0-125                | 386                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2012 | North of Cape Falcon, OR              | Winter | 0-125                | 207                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2012 | North of Cape Falcon, OR              | Winter | 125-250              | 1388                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2012 | North of Cape Falcon, OR              | Winter | 250+                 | 1337                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2012 | North of Cape Falcon, OR              | Summer | 0-125                | 2675                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2012 | North of Cape Falcon, OR              | Summer | 125-250              | 928                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2012 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-250                | 1054                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2012 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1655                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2012 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-250                | 220                            | 2   | 0   | --                               | 2                             | 0.00  | 0.00  | --                             | 0.00                          |
| 2012 | South of Cape Mendocino, CA           | Winter | 0-125                | 44                             | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2013 | North of Cape Falcon, OR              | Winter | 0-125                | 318                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2013 | North of Cape Falcon, OR              | Winter | 125-250              | 1848                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2013 | North of Cape Falcon, OR              | Winter | 250+                 | 1392                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2013 | North of Cape Falcon, OR              | Summer | 0-125                | 2445                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 1591                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1839                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2013 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 0-125                | 158                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 125-250              | 355                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |

Table 16e (continued). Observed at-sea, estimated unknown, landed, and total unspecified bycatch in the catch shares non-hake bottom trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Fleet Groundfish Landings (mt) | At-Sea Observed Unspecified Bycatch (Individuals) | At-Sea Unknown Unspecified Bycatch Estimate (Individuals) | Landed Unspecified (Individuals) | Total Unspecified Individuals | At-Sea Observed Unspecified Bycatch Weight (mt) | At-Sea Unknown Unspecified Bycatch Estimate Weight (mt) | Landed Unspecified Weight (mt) | Total Unspecified Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|---|---|----------------------------------|-------------------------------|---|---|--------------------------------|-------------------------------|
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 1320                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2013 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 228                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2013 | South of Cape Mendocino, CA           | Winter | 0-125                | 105                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2013 | South of Cape Mendocino, CA           | Summer | 0-125                | 511                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2014 | North of Cape Falcon, OR              | Winter | 0-125                | 307                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2014 | North of Cape Falcon, OR              | Winter | 125-250              | 1012                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2014 | North of Cape Falcon, OR              | Winter | 250+                 | 1251                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2014 | North of Cape Falcon, OR              | Summer | 0-125                | 2113                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2014 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 1523                           | 1   | 0   | --                               | 1                             | 0.00  | 0.00  | --                             | 0.00                          |
| 2014 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1569                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-250                | 338                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 1725                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-125                | 325                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2014 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 250+                 | 962                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2014 | South of Cape Mendocino, CA           | Winter | 0-125                | 287                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2014 | South of Cape Mendocino, CA           | Winter | 125-250              | 219                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2014 | South of Cape Mendocino, CA           | Winter | 250+                 | 621                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2014 | South of Cape Mendocino, CA           | Summer | 0-125                | 314                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2015 | North of Cape Falcon, OR              | Winter | 0-125                | 208                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2015 | North of Cape Falcon, OR              | Winter | 125-250              | 1785                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2015 | North of Cape Falcon, OR              | Winter | 250+                 | 1151                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2015 | North of Cape Falcon, OR              | Summer | 0-125                | 2316                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2015 | North of Cape Falcon, OR              | Summer | 125-250              | 370                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 0-250                | 1789                           | 4   | 0   | --                               | 4                             | 0.01  | 0.00  | --                             | 0.01                          |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 250+                 | 1541                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2015 | Cape Falcon, OR to Cape Blanco, OR    | Summer | 125-250              | 250                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-250                | 449                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 1440                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |

Table 16e (continued). Observed at-sea, estimated unknown, landed, and total unspecified bycatch in the catch shares non-hake bottom trawl fishery.

| Year | Area                                  | Season | Depth Interval (fth) | Fleet Groundfish Landings (mt) | At-Sea Observed Unspecified Bycatch (Individuals) | At-Sea Unknown Unspecified Bycatch Estimate (Individuals) | Landed Unspecified (Individuals) | Total Unspecified Individuals | At-Sea Observed Unspecified Bycatch Weight (mt) | At-Sea Unknown Unspecified Bycatch Estimate Weight (mt) | Landed Unspecified Weight (mt) | Total Unspecified Weight (mt) |
|------|---------------------------------------|--------|----------------------|--------------------------------|---|---|----------------------------------|-------------------------------|---|---|--------------------------------|-------------------------------|
| 2015 | Cape Blanco, OR to Cape Mendocino, CA | Summer | 0-250                | 582                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2015 | South of Cape Mendocino, CA           | Winter | 0-125                | 115                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2015 | South of Cape Mendocino, CA           | Winter | 125-250              | 138                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2015 | South of Cape Mendocino, CA           | Summer | 0-125                | 211                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2016 | North of Cape Falcon, OR              | Winter | 0-125                | 283                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2016 | North of Cape Falcon, OR              | Winter | 125-250              | 1633                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2016 | North of Cape Falcon, OR              | Winter | 250+                 | 1113                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2016 | North of Cape Falcon, OR              | Summer | 0-125                | 2598                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2016 | North of Cape Falcon, OR              | Summer | 125-250              | 403                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2016 | North of Cape Falcon, OR              | Summer | 250+                 | 240                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2016 | Cape Falcon, OR to Cape Blanco, OR    | Winter | 125-250              | 1908                           | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2016 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 0-250                | 465                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2016 | Cape Blanco, OR to Cape Mendocino, CA | Winter | 250+                 | 958                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2016 | South of Cape Mendocino, CA           | Winter | 0-250                | 25                             | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2016 | South of Cape Mendocino, CA           | Winter | 250+                 | 125                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |
| 2016 | South of Cape Mendocino, CA           | Summer | 0-250                | 142                            | --  | --  | --                               | --                            | --  | --  | --                             | --                            |

Table 17. Observed vessels, trips, hauls, catch, and salmon, as well as fleet landings, stratified by year, target strategy, season, and salmon management area for shoreside catch shares midwater trawl. Data from non-hake midwater trawl in 2011 is include in Tables 15 and 16 to maintain confidentiality. Targeted landings for non-hake and rockfish midwater trawl include all non-hake groundfish retained; targetted landings for shoreside hake and midwater hake include hake retained. In 2015, the basis of the definition for shoreside midwater changed from the captain's stated target to the proportion hake landed.

| Sector                       | Year | Area                                  | Season   | Fleet Targeted Landings (mt) | Observed Vessels | Observed Trips | Observed Hauls | Observed Hauls that Encountered Salmon | Percent of Observed Hauls that Encountered Salmon |
|------------------------------|------|---------------------------------------|----------|------------------------------|------------------|----------------|----------------|--|---|
| CS - Non-Hake Midwater Trawl | 2012 | North of Cape Blanco, OR              | All Year | 198                          | 4                | 9              | 35             | 6                                      | 17  |
| CS - Non-Hake Midwater Trawl | 2013 | North of Cape Blanco, OR              | All Year | 405                          | 6                | 22             | 77             | 11                                     | 14  |
| CS - Non-Hake Midwater Trawl | 2014 | North of Cape Blanco, OR              | All Year | 874                          | 9                | 34             | 133            | 76                                     | 57  |
| Shoreside Hake               | 2011 | North of Cape Falcon, OR              | Winter   | 717                          | 4                | 9              | 19             | 13                                     | 68  |
| Shoreside Hake               | 2011 | North of Cape Falcon, OR              | Summer   | 63246                        | 25               | 593            | 1147           | 687                                    | 60  |
| Shoreside Hake               | 2011 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 1292                         | 3                | 12             | 25             | 14                                     | 56  |
| Shoreside Hake               | 2011 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 25503                        | 21               | 307            | 525            | 173                                    | 33  |
| Shoreside Hake               | 2012 | North of Cape Falcon, OR              | Winter   | 6126                         | 14               | 61             | 141            | 125                                    | 89  |
| Shoreside Hake               | 2012 | North of Cape Falcon, OR              | Summer   | 31744                        | 21               | 337            | 815            | 210                                    | 26  |
| Shoreside Hake               | 2012 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 4234                         | 14               | 54             | 74             | 52                                     | 70  |
| Shoreside Hake               | 2012 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 23222                        | 21               | 294            | 568            | 232                                    | 41  |
| Shoreside Hake               | 2013 | North of Cape Falcon, OR              | Summer   | 20581                        | 16               | 191            | 395            | 120                                    | 30  |
| Shoreside Hake               | 2013 | North of Cape Blanco, OR              | Winter   | 2110                         | 8                | 20             | 52             | 51                                     | 98  |
| Shoreside Hake               | 2013 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 72922                        | 24               | 743            | 1267           | 358                                    | 28  |
| Shoreside Hake               | 2013 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 1093                         | 6                | 10             | 19             | 4                                      | 21  |
| Shoreside Hake               | 2014 | North of Cape Falcon, OR              | Winter   | 1287                         | 11               | 19             | 30             | 20                                     | 67  |
| Shoreside Hake               | 2014 | North of Cape Falcon, OR              | Summer   | 31529                        | 19               | 283            | 566            | 312                                    | 55  |
| Shoreside Hake               | 2014 | South of Cape Falcon, OR              | Winter   | 2665                         | 11               | 26             | 54             | 33                                     | 61  |
| Shoreside Hake               | 2014 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 59509                        | 23               | 627            | 1028           | 577                                    | 56  |
| Shoreside Hake               | 2014 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 2845                         | 11               | 26             | 43             | 14                                     | 33  |
| Midwater Rockfish            | 2015 | North of Cape Blanco, OR              | Winter   | 103                          | 4                | 8              | 26             | 11                                     | 42  |
| Midwater Rockfish            | 2015 | North of Cape Blanco, OR              | Summer   | 865                          | 5                | 35             | 120            | 74                                     | 62  |
| Midwater Rockfish            | 2016 | North of Cape Blanco, OR              | All Year | 375                          | 4                | 16             | 49             | 14                                     | 29  |
| Midwater Hake                | 2015 | North of Cape Falcon, OR              | Summer   | 1708                         | 5                | 28             | 62             | 34                                     | 55  |
| Midwater Hake                | 2015 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 9592                         | 5                | 111            | 225            | 90                                     | 40  |
| Midwater Hake                | 2016 | Coastwide                             | Summer   | 8970                         | 4                | 97             | 207            | 56                                     | 27  |

Table 18a. Observed at-sea, estimated unknown, landed, and total Chinook salmon bycatch in the catch shares midwater trawl fishery. Data from non-hake midwater trawl in 2011 are included in Tables 15 and 16 to maintain confidentiality. Targeted landings for non-hake and rockfish midwater trawl include all non-hake groundfish retained; targeted landings for shoreside hake and midwater hake include hake retained. In 2015, the basis of the definition for shoreside midwater changed from the captain's stated target to the proportion hake landed.

| Sector                       | Year | Area                                  | Season   | Fleet Targeted Landings (mt) | At-Sea Observed Chinook Bycatch (Individuals) | At-Sea Unknown Chinook Bycatch Estimate (Individuals) | Landed Chinook (Individuals) | Total Chinook Individuals | At-Sea Observed Chinook Bycatch Weight (mt) | At-Sea Unknown Chinook Bycatch Estimate Weight (mt) | Landed Chinook Weight (mt) | Total Chinook Weight (mt) |
|------------------------------|------|---------------------------------------|----------|------------------------------|---|---|------------------------------|---------------------------|---|---|----------------------------|---------------------------|
| CS - Non-Hake Midwater Trawl | 2012 | North of Cape Blanco, OR              | All Year | 198                          | 4   | --  | 8                            | 12                        | 0.01  | --  | 0.02                       | 0.03                      |
| CS - Non-Hake Midwater Trawl | 2013 | North of Cape Blanco, OR              | All Year | 405                          | 10  | 21  | 40                           | 71                        | 0.03  | 0.08  | 0.15                       | 0.26                      |
| CS - Non-Hake Midwater Trawl | 2014 | North of Cape Blanco, OR              | All Year | 874                          | --  | --  | 661                          | 661                       | --  | --  | 1.30                       | 1.30                      |
| Shoreside Hake               | 2011 | North of Cape Falcon, OR              | Winter   | 717                          | --  | --  | 30                           | 30                        | --  | --  | 0.10                       | 0.10                      |
| Shoreside Hake               | 2011 | North of Cape Falcon, OR              | Summer   | 63246                        | --  | --  | 2763                         | 2763                      | --  | --  | 7.92                       | 7.92                      |
| Shoreside Hake               | 2011 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 1292                         | --  | --  | 72                           | 72                        | --  | --  | 0.23                       | 0.23                      |
| Shoreside Hake               | 2011 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 25503                        | 11  | 3   | 843                          | 857                       | 0.05  | 0.01  | 3.71                       | 3.77                      |
| Shoreside Hake               | 2012 | North of Cape Falcon, OR              | Winter   | 6126                         | 2   | 16  | 983                          | 1001                      | 0.01  | 0.04  | 2.55                       | 2.60                      |
| Shoreside Hake               | 2012 | North of Cape Falcon, OR              | Summer   | 31744                        | 4   | 22  | 373                          | 399                       | 0.02  | 0.08  | 1.43                       | 1.53                      |
| Shoreside Hake               | 2012 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 4234                         | 3   | --  | 403                          | 406                       | 0.01  | --  | 1.03                       | 1.03                      |
| Shoreside Hake               | 2012 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 23222                        | --  | --  | 553                          | 553                       | --  | --  | 2.23                       | 2.23                      |
| Shoreside Hake               | 2013 | North of Cape Falcon, OR              | Summer   | 20581                        | 11  | --  | 124                          | 135                       | 0.04  | --  | 0.55                       | 0.59                      |
| Shoreside Hake               | 2013 | North of Cape Blanco, OR              | Winter   | 2110                         | --  | --  | 403                          | 403                       | --  | --  | 1.26                       | 1.26                      |
| Shoreside Hake               | 2013 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 72922                        | 12  | 6   | 704                          | 722                       | 0.04  | 0.02  | 2.63                       | 2.69                      |
| Shoreside Hake               | 2013 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 1093                         | --  | --  | 3                            | 3                         | --  | --  | 0.01                       | 0.01                      |
| Shoreside Hake               | 2014 | North of Cape Falcon, OR              | Winter   | 1287                         | --  | --  | 95                           | 95                        | --  | --  | 0.25                       | 0.25                      |
| Shoreside Hake               | 2014 | North of Cape Falcon, OR              | Summer   | 31529                        | 72  | 31  | 638                          | 741                       | 0.08  | 0.14  | 3.21                       | 3.44                      |
| Shoreside Hake               | 2014 | South of Cape Falcon, OR              | Winter   | 2665                         | --  | --  | 777                          | 777                       | --  | --  | 1.82                       | 1.82                      |
| Shoreside Hake               | 2014 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 59509                        | 39  | 31  | 5187                         | 5258                      | 0.10  | 0.07  | 12.23                      | 12.40                     |
| Shoreside Hake               | 2014 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 2845                         | --  | --  | 27                           | 27                        | --  | --  | 0.07                       | 0.07                      |
| Midwater Rockfish            | 2015 | North of Cape Blanco, OR              | Winter   | 865                          | --  | --  | 17                           | 17                        | --  | --  | 0.05                       | 0.05                      |
| Midwater Rockfish            | 2015 | North of Cape Blanco, OR              | Summer   | 103                          | 50  | 0   | 97                           | 147                       | 0.22  | 0.00  | 0.43                       | 0.65                      |
| Midwater Rockfish            | 2016 | North of Cape Blanco, OR              | All Year | 375                          | --  | --  | 7                            | 7                         | --  | --  | 0.02                       | 0.02                      |
| Midwater Hake                | 2015 | North of Cape Falcon, OR              | Summer   | 9592                         | 1   | 0   | 29                           | 30                        | 0.01  | 0.00  | 0.12                       | 0.13                      |
| Midwater Hake                | 2015 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 1708                         | --  | 4   | 133                          | 137                       | --  | 0.02  | 0.53                       | 0.55                      |
| Midwater Hake                | 2016 | Coastwide                             | Summer   | 8970                         | --  | --  | 101                          | 101                       | --  | --  | 0.56                       | 0.56                      |

Table 18b. Observed at-sea, estimated unknown, landed, and total chum salmon bycatch in the catch shares midwater trawl fishery. Data from non-hake midwater trawl in 2011 are included in Tables 15 and 16 to maintain confidentiality. Targeted landings for non-hake and rockfish midwater trawl include all non-hake groundfish retained; targeted landings for shoreside hake and midwater hake include hake retained. In 2015, the basis of the definition for shoreside midwater changed from the captain's stated target to the proportion hake landed.

| Sector                       | Year | Area                                  | Season   | Fleet Targeted Landings (mt) | At-Sea                              | At-Sea                                      | Landed Chum (Individuals) | Total Chum Individuals | At-Sea                            | At-Sea                                    | Landed Chum Weight (mt) | Total Chum Weight (mt) |
|------------------------------|------|---------------------------------------|----------|------------------------------|-------------------------------------|---|---------------------------|------------------------|-----------------------------------|---|-------------------------|------------------------|
|                              |      |                                       |          |                              | Observed Chum Bycatch (Individuals) | Unknown Chum Bycatch Estimate (Individuals) |                           |                        | Observed Chum Bycatch Weight (mt) | Unknown Chum Bycatch Estimate Weight (mt) |                         |                        |
| CS - Non-Hake Midwater Trawl | 2012 | North of Cape Blanco, OR              | All Year | 198                          | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| CS - Non-Hake Midwater Trawl | 2013 | North of Cape Blanco, OR              | All Year | 405                          | 1                                   | 0   | --                        | 1                      | 0.00                              | 0.00                                      | --                      | 0.01                   |
| CS - Non-Hake Midwater Trawl | 2014 | North of Cape Blanco, OR              | All Year | 874                          | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Shoreside Hake               | 2011 | North of Cape Falcon, OR              | Winter   | 717                          | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Shoreside Hake               | 2011 | North of Cape Falcon, OR              | Summer   | 63246                        | --                                  | --  | 41                        | 41                     | --                                | --  | 0.16                    | 0.16                   |
| Shoreside Hake               | 2011 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 1292                         | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Shoreside Hake               | 2011 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 25503                        | --                                  | 0   | 1                         | 1                      | --                                | 0.00                                      | 0.00                    | 0.00                   |
| Shoreside Hake               | 2012 | North of Cape Falcon, OR              | Winter   | 6126                         | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Shoreside Hake               | 2012 | North of Cape Falcon, OR              | Summer   | 31744                        | --                                  | 0   | 3                         | 3                      | --                                | 0.00                                      | 0.01                    | 0.01                   |
| Shoreside Hake               | 2012 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 4234                         | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Shoreside Hake               | 2012 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 23222                        | --                                  | --  | 0                         | 0                      | --                                | --  | 0.00                    | 0.00                   |
| Shoreside Hake               | 2013 | North of Cape Falcon, OR              | Summer   | 20581                        | --                                  | --  | 6                         | 6                      | --                                | --  | 0.03                    | 0.03                   |
| Shoreside Hake               | 2013 | North of Cape Blanco, OR              | Winter   | 2110                         | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Shoreside Hake               | 2013 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 72922                        | --                                  | 0   | 1                         | 1                      | --                                | 0.00                                      | 0.01                    | 0.01                   |
| Shoreside Hake               | 2013 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 1093                         | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Shoreside Hake               | 2014 | North of Cape Falcon, OR              | Winter   | 1287                         | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Shoreside Hake               | 2014 | North of Cape Falcon, OR              | Summer   | 31529                        | --                                  | 0   | 4                         | 4                      | --                                | 0.00                                      | 0.03                    | 0.03                   |
| Shoreside Hake               | 2014 | South of Cape Falcon, OR              | Winter   | 2665                         | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Shoreside Hake               | 2014 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 59509                        | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Shoreside Hake               | 2014 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 2845                         | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Midwater Rockfish            | 2015 | North of Cape Blanco, OR              | Winter   | 865                          | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Midwater Rockfish            | 2015 | North of Cape Blanco, OR              | Summer   | 103                          | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Midwater Rockfish            | 2016 | North of Cape Blanco, OR              | All Year | 375                          | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Midwater Hake                | 2015 | North of Cape Falcon, OR              | Summer   | 9592                         | --                                  | 0   | 1                         | 1                      | --                                | 0.00                                      | 0.01                    | 0.01                   |
| Midwater Hake                | 2015 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 1708                         | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Midwater Hake                | 2016 | Coastwide                             | Summer   | 8970                         | --                                  | --  | 1                         | 1                      | --                                | --  | 0.00                    | 0.00                   |



Table 18c. Observed at-sea, estimated unknown, landed, and total coho salmon bycatch in the catch shares midwater trawl fishery. Data from non-hake midwater trawl in 2011 are included in Tables 15 and 16 to maintain confidentiality. Targeted landings for non-hake and rockfish midwater trawl include all non-hake groundfish retained; targeted landings for shoreside hake and midwater hake include hake retained. In 2015, the basis of the definition for shoreside midwater changed from the captain's stated target to the proportion hake landed.

| Sector                       | Year | Area                                  | Season   | Fleet Targeted Landings (mt) | At-Sea                              | At-Sea                                      | Landed Coho (Individuals) | Total Coho Individuals | At-Sea                            | At-Sea                                    | Landed Coho Weight (mt) | Total Coho Weight (mt) |
|------------------------------|------|---------------------------------------|----------|------------------------------|-------------------------------------|---|---------------------------|------------------------|-----------------------------------|---|-------------------------|------------------------|
|                              |      |                                       |          |                              | Observed Coho Bycatch (Individuals) | Unknown Coho Bycatch Estimate (Individuals) |                           |                        | Observed Coho Bycatch Weight (mt) | Unknown Coho Bycatch Estimate Weight (mt) |                         |                        |
| CS - Non-Hake Midwater Trawl | 2012 | North of Cape Blanco, OR              | All Year | 198                          | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| CS - Non-Hake Midwater Trawl | 2013 | North of Cape Blanco, OR              | All Year | 405                          | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| CS - Non-Hake Midwater Trawl | 2014 | North of Cape Blanco, OR              | All Year | 874                          | --                                  | --  | 12                        | 12                     | --                                | --  | 0.04                    | 0.04                   |
| Shoreside Hake               | 2011 | North of Cape Falcon, OR              | Winter   | 717                          | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Shoreside Hake               | 2011 | North of Cape Falcon, OR              | Summer   | 63246                        | --                                  | --  | 129                       | 129                    | --                                | --  | 0.39                    | 0.39                   |
| Shoreside Hake               | 2011 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 1292                         | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Shoreside Hake               | 2011 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 25503                        | --                                  | 0   | 7                         | 7                      | --                                | 0.00                                      | 0.03                    | 0.03                   |
| Shoreside Hake               | 2012 | North of Cape Falcon, OR              | Winter   | 6126                         | --                                  | 0   | 6                         | 6                      | --                                | 0.00                                      | 0.01                    | 0.01                   |
| Shoreside Hake               | 2012 | North of Cape Falcon, OR              | Summer   | 31744                        | --                                  | 0   | 8                         | 8                      | --                                | 0.00                                      | 0.02                    | 0.02                   |
| Shoreside Hake               | 2012 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 4234                         | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Shoreside Hake               | 2012 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 23222                        | --                                  | --  | 1                         | 1                      | --                                | --  | 0.01                    | 0.01                   |
| Shoreside Hake               | 2013 | North of Cape Falcon, OR              | Summer   | 20581                        | --                                  | --  | 10                        | 10                     | --                                | --  | 0.03                    | 0.03                   |
| Shoreside Hake               | 2013 | North of Cape Blanco, OR              | Winter   | 2110                         | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Shoreside Hake               | 2013 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 72922                        | --                                  | 0   | 23                        | 23                     | --                                | 0.00                                      | 0.10                    | 0.11                   |
| Shoreside Hake               | 2013 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 1093                         | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Shoreside Hake               | 2014 | North of Cape Falcon, OR              | Winter   | 1287                         | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Shoreside Hake               | 2014 | North of Cape Falcon, OR              | Summer   | 31529                        | --                                  | 4   | 80                        | 84                     | --                                | 0.01                                      | 0.20                    | 0.21                   |
| Shoreside Hake               | 2014 | South of Cape Falcon, OR              | Winter   | 2665                         | --                                  | --  | 8                         | 8                      | --                                | --  | 0.01                    | 0.01                   |
| Shoreside Hake               | 2014 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 59509                        | --                                  | 0   | 74                        | 74                     | --                                | 0.00                                      | 0.18                    | 0.18                   |
| Shoreside Hake               | 2014 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 2845                         | --                                  | --  | 1                         | 1                      | --                                | --  | 0.00                    | 0.00                   |
| Midwater Rockfish            | 2015 | North of Cape Blanco, OR              | Winter   | 865                          | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Midwater Rockfish            | 2015 | North of Cape Blanco, OR              | Summer   | 103                          | --                                  | 0   | 3                         | 3                      | --                                | 0.00                                      | 0.01                    | 0.01                   |
| Midwater Rockfish            | 2016 | North of Cape Blanco, OR              | All Year | 375                          | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Midwater Hake                | 2015 | North of Cape Falcon, OR              | Summer   | 9592                         | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Midwater Hake                | 2015 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 1708                         | --                                  | --  | --                        | --                     | --                                | --  | --                      | --                     |
| Midwater Hake                | 2016 | Coastwide                             | Summer   | 8970                         | --                                  | --  | 1                         | 1                      | --                                | --  | 0.00                    | 0.00                   |

Table 18d. Observed at-sea, estimated unknown, landed, and total pink salmon bycatch in the catch shares midwater trawl fishery. Data from non-hake midwater trawl in 2011 are included in Tables 15 and 16 to maintain confidentiality. Targeted landings for non-hake and rockfish midwater trawl include all non-hake groundfish retained; targeted landings for shoreside hake and midwater hake include hake retained. In 2015, the basis of the definition for shoreside midwater changed from the captain's stated target to the proportion hake landed.

| Sector                       | Year | Area                                  | Season   | Fleet Targeted Landings (mt) | At-Sea Observed Pink Bycatch (Individuals) | At-Sea Unknown Pink Bycatch Estimate (Individuals) | Landed Pink (Individuals) | Total Pink Individuals | At-Sea Observed Pink Bycatch Weight (mt) | At-Sea Unknown Pink Bycatch Estimate Weight (mt) | Landed Pink Weight (mt) | Total Pink Weight (mt) |
|------------------------------|------|---------------------------------------|----------|------------------------------|--|--|---------------------------|------------------------|--|--|-------------------------|------------------------|
| CS - Non-Hake Midwater Trawl | 2012 | North of Cape Blanco, OR              | All Year | 198                          | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| CS - Non-Hake Midwater Trawl | 2013 | North of Cape Blanco, OR              | All Year | 405                          | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| CS - Non-Hake Midwater Trawl | 2014 | North of Cape Blanco, OR              | All Year | 874                          | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| Shoreside Hake               | 2011 | North of Cape Falcon, OR              | Winter   | 717                          | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| Shoreside Hake               | 2011 | North of Cape Falcon, OR              | Summer   | 63246                        | 3  | --   | 6110                      | 6113                   | 0.01                                     | --   | 11.48                   | 11.49                  |
| Shoreside Hake               | 2011 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 1292                         | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| Shoreside Hake               | 2011 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 25503                        | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| Shoreside Hake               | 2012 | North of Cape Falcon, OR              | Winter   | 6126                         | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| Shoreside Hake               | 2012 | North of Cape Falcon, OR              | Summer   | 31744                        | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| Shoreside Hake               | 2012 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 4234                         | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| Shoreside Hake               | 2012 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 23222                        | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| Shoreside Hake               | 2013 | North of Cape Falcon, OR              | Summer   | 20581                        | --   | --   | 2                         | 2                      | --                                       | --   | 0.00                    | 0.00                   |
| Shoreside Hake               | 2013 | North of Cape Blanco, OR              | Winter   | 2110                         | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| Shoreside Hake               | 2013 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 72922                        | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| Shoreside Hake               | 2013 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 1093                         | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| Shoreside Hake               | 2014 | North of Cape Falcon, OR              | Winter   | 1287                         | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| Shoreside Hake               | 2014 | North of Cape Falcon, OR              | Summer   | 31529                        | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| Shoreside Hake               | 2014 | South of Cape Falcon, OR              | Winter   | 2665                         | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| Shoreside Hake               | 2014 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 59509                        | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| Shoreside Hake               | 2014 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 2845                         | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| Midwater Rockfish            | 2015 | North of Cape Blanco, OR              | Winter   | 865                          | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| Midwater Rockfish            | 2015 | North of Cape Blanco, OR              | Summer   | 103                          | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| Midwater Rockfish            | 2016 | North of Cape Blanco, OR              | All Year | 375                          | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| Midwater Hake                | 2015 | North of Cape Falcon, OR              | Summer   | 9592                         | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| Midwater Hake                | 2015 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 1708                         | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |
| Midwater Hake                | 2016 | Coastwide                             | Summer   | 8970                         | --   | --   | --                        | --                     | --                                       | --   | --                      | --                     |

Table 18e. Observed at-sea, estimated unknown, landed, and total sockeye salmon bycatch in the catch shares midwater trawl fishery. Data from non-hake midwater trawl in 2011 are included in Tables 15 and 16 to maintain confidentiality. Targeted landings for non-hake and rockfish midwater trawl include all non-hake groundfish retained; targeted landings for shoreside hake and midwater hake include hake retained. In 2015, the basis of the definition for shoreside midwater changed from the captain's stated target to the proportion hake landed.

| Sector                       | Year | Area                                  | Season   | Fleet Targeted Landings (mt) | At-Sea Observed Sockeye Bycatch (Individuals) | At-Sea Unknown Sockeye Bycatch Estimate (Individuals) | Landed Sockeye (Individuals) | Total Sockeye Individuals | At-Sea Observed Sockeye Bycatch Weight (mt) | At-Sea Unknown Sockeye Bycatch Estimate Weight (mt) | Landed Sockeye Weight (mt) | Total Sockeye Weight (mt) |
|------------------------------|------|---------------------------------------|----------|------------------------------|---|---|------------------------------|---------------------------|---|---|----------------------------|---------------------------|
| CS - Non-Hake Midwater Trawl | 2012 | North of Cape Blanco, OR              | All Year | 198                          | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| CS - Non-Hake Midwater Trawl | 2013 | North of Cape Blanco, OR              | All Year | 405                          | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| CS - Non-Hake Midwater Trawl | 2014 | North of Cape Blanco, OR              | All Year | 874                          | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| Shoreside Hake               | 2011 | North of Cape Falcon, OR              | Winter   | 717                          | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| Shoreside Hake               | 2011 | North of Cape Falcon, OR              | Summer   | 63246                        | --  | --  | 2                            | 2                         | --  | --  | 0.00                       | 0.00                      |
| Shoreside Hake               | 2011 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 1292                         | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| Shoreside Hake               | 2011 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 25503                        | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| Shoreside Hake               | 2012 | North of Cape Falcon, OR              | Winter   | 6126                         | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| Shoreside Hake               | 2012 | North of Cape Falcon, OR              | Summer   | 31744                        | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| Shoreside Hake               | 2012 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 4234                         | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| Shoreside Hake               | 2012 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 23222                        | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| Shoreside Hake               | 2013 | North of Cape Falcon, OR              | Summer   | 20581                        | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| Shoreside Hake               | 2013 | North of Cape Blanco, OR              | Winter   | 2110                         | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| Shoreside Hake               | 2013 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 72922                        | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| Shoreside Hake               | 2013 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 1093                         | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| Shoreside Hake               | 2014 | North of Cape Falcon, OR              | Winter   | 1287                         | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| Shoreside Hake               | 2014 | North of Cape Falcon, OR              | Summer   | 31529                        | --  | 0   | 1                            | 1                         | --  | 0.00  | 0.00                       | 0.00                      |
| Shoreside Hake               | 2014 | South of Cape Falcon, OR              | Winter   | 2665                         | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| Shoreside Hake               | 2014 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 59509                        | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| Shoreside Hake               | 2014 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 2845                         | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| Midwater Rockfish            | 2015 | North of Cape Blanco, OR              | Winter   | 865                          | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| Midwater Rockfish            | 2015 | North of Cape Blanco, OR              | Summer   | 103                          | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| Midwater Rockfish            | 2016 | North of Cape Blanco, OR              | All Year | 375                          | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| Midwater Hake                | 2015 | North of Cape Falcon, OR              | Summer   | 9592                         | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| Midwater Hake                | 2015 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 1708                         | --  | --  | --                           | --                        | --  | --  | --                         | --                        |
| Midwater Hake                | 2016 | Coastwide                             | Summer   | 8970                         | --  | --  | --                           | --                        | --  | --  | --                         | --                        |

Table 18f. Observed at-sea, estimated unknown, landed, and total unspecified bycatch in the catch shares midwater trawl fishery. Data from non-hake midwater trawl in 2011 are included in Tables 15 and 16 to maintain confidentiality. Targeted landings for non-hake and rockfish midwater trawl include all non-hake groundfish retained; targeted landings for shoreside hake and midwater hake include hake retained. In 2015, the basis of the definition for shoreside midwater changed from the captain's stated target to the proportion hake landed.

| Sector                       | Year | Area                                  | Season   | Fleet Targeted Landings (mt) | At-Sea                                     | At-Sea Unknown                             | Landed Unspecified (Individuals) | Total Unspecified Individuals | At-Sea                                   | At-Sea Unknown                           | Landed Unspecified Weight (mt) | Total Unspecified Weight (mt) |
|------------------------------|------|---------------------------------------|----------|------------------------------|--|--|----------------------------------|-------------------------------|--|--|--------------------------------|-------------------------------|
|                              |      |                                       |          |                              | Observed Unspecified Bycatch (Individuals) | Unspecified Bycatch Estimate (Individuals) |                                  |                               | Observed Unspecified Bycatch Weight (mt) | Unspecified Bycatch Estimate Weight (mt) |                                |                               |
| CS - Non-Hake Midwater Trawl | 2012 | North of Cape Blanco, OR              | All Year | 198                          | --   | --   | --                               | --                            | --                                       | --                                       | --                             | --                            |
| CS - Non-Hake Midwater Trawl | 2013 | North of Cape Blanco, OR              | All Year | 405                          | --   | --   | --                               | --                            | --                                       | --                                       | --                             | --                            |
| CS - Non-Hake Midwater Trawl | 2014 | North of Cape Blanco, OR              | All Year | 874                          | --   | --   | --                               | --                            | --                                       | --                                       | --                             | --                            |
| Shoreside Hake               | 2011 | North of Cape Falcon, OR              | Winter   | 717                          | --   | --   | --                               | --                            | --                                       | --                                       | --                             | --                            |
| Shoreside Hake               | 2011 | North of Cape Falcon, OR              | Summer   | 63246                        | --   | --   | --                               | --                            | --                                       | --                                       | --                             | --                            |
| Shoreside Hake               | 2011 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 1292                         | --   | --   | --                               | --                            | --                                       | --                                       | --                             | --                            |
| Shoreside Hake               | 2011 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 25503                        | --   | --   | --                               | --                            | --                                       | --                                       | --                             | --                            |
| Shoreside Hake               | 2012 | North of Cape Falcon, OR              | Winter   | 6126                         | 1  | 0  | --                               | 1                             | 0.00                                     | 0.00                                     | --                             | 0.00                          |
| Shoreside Hake               | 2012 | North of Cape Falcon, OR              | Summer   | 31744                        | --   | --   | --                               | --                            | --                                       | --                                       | --                             | --                            |
| Shoreside Hake               | 2012 | Cape Falcon, OR to Cape Blanco, OR    | Winter   | 4234                         | --   | --   | --                               | --                            | --                                       | --                                       | --                             | --                            |
| Shoreside Hake               | 2012 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 23222                        | 1  | --   | --                               | 1                             | 0.00                                     | --                                       | --                             | 0.00                          |
| Shoreside Hake               | 2013 | North of Cape Falcon, OR              | Summer   | 20581                        | --   | --   | --                               | --                            | --                                       | --                                       | --                             | --                            |
| Shoreside Hake               | 2013 | North of Cape Blanco, OR              | Winter   | 2110                         | --   | --   | --                               | --                            | --                                       | --                                       | --                             | --                            |
| Shoreside Hake               | 2013 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 72922                        | --   | --   | --                               | --                            | --                                       | --                                       | --                             | --                            |
| Shoreside Hake               | 2013 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 1093                         | --   | --   | --                               | --                            | --                                       | --                                       | --                             | --                            |
| Shoreside Hake               | 2014 | North of Cape Falcon, OR              | Winter   | 1287                         | 12   | --   | --                               | 12                            | 0.03                                     | --                                       | --                             | 0.03                          |
| Shoreside Hake               | 2014 | North of Cape Falcon, OR              | Summer   | 31529                        | 19   | 1  | --                               | 20                            | 0.05                                     | 0.00                                     | --                             | 0.05                          |
| Shoreside Hake               | 2014 | South of Cape Falcon, OR              | Winter   | 2665                         | --   | --   | --                               | --                            | --                                       | --                                       | --                             | --                            |
| Shoreside Hake               | 2014 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 59509                        | 1  | 0  | --                               | 1                             | 0.00                                     | 0.00                                     | --                             | 0.00                          |
| Shoreside Hake               | 2014 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 2845                         | --   | --   | --                               | --                            | --                                       | --                                       | --                             | --                            |
| Midwater Rockfish            | 2015 | North of Cape Blanco, OR              | Winter   | 865                          | --   | --   | --                               | --                            | --                                       | --                                       | --                             | --                            |
| Midwater Rockfish            | 2015 | North of Cape Blanco, OR              | Summer   | 103                          | --   | --   | --                               | --                            | --                                       | --                                       | --                             | --                            |
| Midwater Rockfish            | 2016 | North of Cape Blanco, OR              | All Year | 375                          | --   | --   | --                               | --                            | --                                       | --                                       | --                             | --                            |
| Midwater Hake                | 2015 | North of Cape Falcon, OR              | Summer   | 9592                         | --   | --   | --                               | --                            | --                                       | --                                       | --                             | --                            |
| Midwater Hake                | 2015 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 1708                         | --   | --   | --                               | --                            | --                                       | --                                       | --                             | --                            |
| Midwater Hake                | 2016 | Coastwide                             | Summer   | 8970                         | --   | --   | --                               | --                            | --                                       | --                                       | --                             | --                            |

Table 19. Observed vessels, trips, hauls, catch, and salmon interactions, as well as fleet landings, for the CS hook-and-line fishery.

| Year | Fleet Sablefish Landings (mt) | Observed Vessels | Observed Trips | Observed Hauls | Observed Hauls that Encountered Salmon | Percent of Observed Hauls that Encountered Salmon |
|------|-------------------------------|------------------|----------------|----------------|--|---|
| 2011 | 302                           | 11               | 92             | 620            | --                                     | --  |
| 2012 | 206                           | 8                | 32             | 506            | --                                     | --  |
| 2013 | 66                            | 8                | 29             | 215            | --                                     | --  |
| 2014 | 75                            | 8                | 31             | 227            | 10                                     | 4   |
| 2015 | 121                           | 5                | 16             | 185            | --                                     | --  |
| 2016 | 162                           | 5                | 30             | 351            | --                                     | --  |

Table 20. Observed at-sea, estimated unknown, landed, and total salmon bycatch in the CS hook-and-line fishery.

| Year | Fleet Sablefish Landings (mt) | At-Sea Observed Coho Bycatch (Individuals) | At-Sea Unknown Coho Bycatch Estimate (Individuals) | Landed Coho (Individuals) | Total Coho Individuals | At-Sea Observed Coho Bycatch Weight (mt) | At-Sea Unknown Coho Bycatch Estimate Weight (mt) | Landed Coho Weight (mt) | Total Coho Weight (mt) |
|------|-------------------------------|--|--|---------------------------|------------------------|--|--|-------------------------|------------------------|
| 2014 | 75                            | 14   | 1  | --                        | 15                     | 0.06                                     | 0.01   | --                      | 0.06                   |

Table 21. Effort in the electronically monitored (EM) portion of the shoreside catch shares trawl fleet, based on EM, logbook, and fish ticket data. Targeted landings for bottom trawl EM and midwater rockfish EM include all non-hake groundfish retained; targeted landings for midwater hake EM include hake retained.

| Sector               | Year | Area                                  | Season   | Depth Interval (fth) | Targeted Landings (mt) | Observed Vessels | Observed Trips | Observed Hauls that Encountered Salmon | Percent of Observed Hauls that Encountered Salmon |
|----------------------|------|---------------------------------------|----------|----------------------|------------------------|------------------|----------------|--|---|
| Bottom Trawl EM      | 2015 | Coastwide                             | All Year | All Depths           | 405                    | 5                | 23             | 4                                      | 17  |
| Bottom Trawl EM      | 2016 | Coastwide                             | All Year | All Depths           | 1759                   | 7                | 99             | 12                                     | 12  |
| Midwater Hake EM     | 2015 | North of Cape Falcon, OR              | Winter   | 125+                 | 1164                   | 7                | 18             | 15                                     | 83  |
| Midwater Hake EM     | 2015 | North of Cape Falcon, OR              | Summer   | 0-125                | 2179                   | 10               | 32             | 23                                     | 72  |
| Midwater Hake EM     | 2015 | North of Cape Falcon, OR              | Summer   | 125+                 | 4409                   | 15               | 70             | 39                                     | 56  |
| Midwater Hake EM     | 2015 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 0-125                | 6675                   | 15               | 109            | 64                                     | 59  |
| Midwater Hake EM     | 2015 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 125+                 | 31676                  | 16               | 340            | 145                                    | 43  |
| Midwater Hake EM     | 2015 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 125+                 | 337                    | 3                | 5              | 5                                      | 100   |
| Midwater Hake EM     | 2016 | North of Cape Falcon, OR              | Winter   | 0-125                | 105                    | 1                | 1              | --                                     | --  |
| Midwater Hake EM     | 2016 | North of Cape Falcon, OR              | Winter   | 125+                 | 465                    | 4                | 4              | 1                                      | 25  |
| Midwater Hake EM     | 2016 | North of Cape Falcon, OR              | Summer   | 0-125                | 47415                  | 19               | 397            | 146                                    | 37  |
| Midwater Hake EM     | 2016 | North of Cape Falcon, OR              | Summer   | 125+                 | 10655                  | 16               | 114            | 46                                     | 40  |
| Midwater Hake EM     | 2016 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 0-125                | 6632                   | 12               | 77             | 49                                     | 64  |
| Midwater Hake EM     | 2016 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 125+                 | 8029                   | 12               | 106            | 24                                     | 23  |
| Midwater Hake EM     | 2016 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 0-125                | 1950                   | 8                | 21             | 4                                      | 19  |
| Midwater Hake EM     | 2016 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 125+                 | 1162                   | 9                | 17             | 2                                      | 12  |
| Midwater Rockfish EM | 2015 | North of Cape Blanco, OR              | Winter   | 0-125                | 263                    | 6                | 9              | 8                                      | 89  |
| Midwater Rockfish EM | 2015 | North of Cape Blanco, OR              | Summer   | 0-125                | 531                    | 4                | 17             | 16                                     | 94  |
| Midwater Rockfish EM | 2016 | North of Cape Blanco, OR              | Winter   | 0-125                | 266                    | 5                | 9              | --                                     | --  |
| Midwater Rockfish EM | 2016 | North of Cape Blanco, OR              | Summer   | 0-125                | 502                    | 4                | 21             | 13                                     | 62  |

Table 22. Salmon bycatch EM portion of the shoreside catch shares trawl fleet, based on EM, logbook, and fish ticket data. Targeted landings for bottom trawl EM and midwater rockfish EM include all non-hake groundfish retained; targeted landings for midwater hake EM include hake retained. All salmon are required to be retained and sampled by shoreside catch monitors.

| Sector               | Year | Area                                  | Season   | Depth Interval (fth) | Targeted Landings (mt) | Chinook Individuals | Chinook Weight (mt) | Chum Individuals | Chum Weight (mt) | Coho Individuals | Coho Weight (mt) |
|----------------------|------|---------------------------------------|----------|----------------------|------------------------|---------------------|---------------------|------------------|------------------|------------------|------------------|
| Catch Shares EM      | 2015 | Coastwide                             | All Year | All Depths           | 405                    | 5                   | 0.03                | --               | --               | --               | --               |
| Catch Shares EM      | 2016 | Coastwide                             | All Year | All Depths           | 1759                   | 151                 | 0.33                | --               | --               | --               | --               |
| Midwater Hake EM     | 2015 | North of Cape Falcon, OR              | Winter   | 125+                 | 1164                   | 139                 | 0.46                | --               | --               | --               | --               |
| Midwater Hake EM     | 2015 | North of Cape Falcon, OR              | Summer   | 0-125                | 2179                   | 63                  | 0.34                | 3                | 0.01             | 1                | 0.00             |
| Midwater Hake EM     | 2015 | North of Cape Falcon, OR              | Summer   | 125+                 | 4409                   | 141                 | 0.79                | 1                | 0.01             | 1                | 0.00             |
| Midwater Hake EM     | 2015 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 0-125                | 6675                   | 241                 | 1.15                | --               | --               | 3                | 0.00             |
| Midwater Hake EM     | 2015 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 125+                 | 31676                  | 1237                | 4.93                | 2                | 0.01             | 4                | 0.01             |
| Midwater Hake EM     | 2015 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 125+                 | 337                    | 14                  | 0.04                | --               | --               | --               | --               |
| Midwater Hake EM     | 2016 | North of Cape Falcon, OR              | Winter   | 125+                 | 465                    | 1                   | 0.00                | 1                | 0.00             | --               | --               |
| Midwater Hake EM     | 2016 | North of Cape Falcon, OR              | Summer   | 0-125                | 47415                  | 211                 | 1.57                | 14               | 0.05             | 2                | 0.01             |
| Midwater Hake EM     | 2016 | North of Cape Falcon, OR              | Summer   | 125+                 | 10655                  | 46                  | 0.33                | 5                | 0.03             | 1                | 0.00             |
| Midwater Hake EM     | 2016 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 0-125                | 6632                   | 251                 | 1.09                | --               | --               | --               | --               |
| Midwater Hake EM     | 2016 | Cape Falcon, OR to Cape Blanco, OR    | Summer   | 125+                 | 8029                   | 106                 | 0.34                | --               | --               | 1                | 0.00             |
| Midwater Hake EM     | 2016 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 0-125                | 1950                   | 21                  | 0.13                | --               | --               | --               | --               |
| Midwater Hake EM     | 2016 | Cape Blanco, OR to Cape Mendocino, CA | Summer   | 125+                 | 1162                   | 2                   | 0.02                | --               | --               | --               | --               |
| Midwater Rockfish EM | 2015 | North of Cape Blanco, OR              | Winter   | 0-125                | 263                    | 135                 | 0.44                | 1                | 0.00             | 2                | 0.01             |
| Midwater Rockfish EM | 2015 | North of Cape Blanco, OR              | Summer   | 0-125                | 531                    | 183                 | 0.81                | 4                | 0.01             | 2                | 0.01             |
| Midwater Rockfish EM | 2016 | North of Cape Blanco, OR              | Summer   | 0-125                | 502                    | 40                  | 0.18                | --               | --               | --               | --               |

Table 23. Observed vessels, hauls, and salmon interactions, as well as fleet landings, stratified by sector, year, and season for the at-sea hake fishery.

| Sector                | Year | Season   | Fleet Hake Landings (mt) | Observed Vessels | Observed Hauls | Observed Hauls that Encountered Salmon | Percent of Observed Hauls that Encountered Salmon |
|-----------------------|------|----------|--------------------------|------------------|----------------|--|---|
| Catcher Processor     | 2002 | All Year | 36333                    | 5                | 559            | 98                                     | 18  |
| Catcher Processor     | 2003 | Spring   | 14524                    | 4                | 308            | 72                                     | 23  |
| Catcher Processor     | 2003 | Fall     | 26945                    | 3                | 460            | 16                                     | 3   |
| Catcher Processor     | 2004 | Spring   | 25300                    | 6                | 611            | 96                                     | 16  |
| Catcher Processor     | 2004 | Fall     | 47559                    | 5                | 890            | 16                                     | 2   |
| Catcher Processor     | 2005 | Spring   | 38056                    | 6                | 728            | 216                                    | 30  |
| Catcher Processor     | 2005 | Fall     | 40442                    | 5                | 609            | 4                                      | 1   |
| Catcher Processor     | 2006 | Spring   | 46665                    | 9                | 937            | 22                                     | 2   |
| Catcher Processor     | 2006 | Fall     | 31581                    | 6                | 560            | --                                     | --  |
| Catcher Processor     | 2007 | Spring   | 42149                    | 9                | 992            | 137                                    | 14  |
| Catcher Processor     | 2007 | Fall     | 30749                    | 5                | 585            | 29                                     | 5   |
| Catcher Processor     | 2008 | Spring   | 41769                    | 8                | 784            | 53                                     | 7   |
| Catcher Processor     | 2008 | Fall     | 65985                    | 6                | 1102           | 49                                     | 4   |
| Catcher Processor     | 2009 | All Year | 34591                    | 5                | 868            | 9                                      | 1   |
| Catcher Processor     | 2010 | All Year | 54217                    | 6                | 1068           | 74                                     | 7   |
| Catcher Processor     | 2011 | Spring   | 26261                    | 7                | 517            | 58                                     | 11  |
| Catcher Processor     | 2011 | Fall     | 45076                    | 9                | 1032           | 272                                    | 26  |
| Catcher Processor     | 2012 | Spring   | 20539                    | 7                | 400            | 121                                    | 30  |
| Catcher Processor     | 2012 | Fall     | 34983                    | 7                | 707            | 163                                    | 23  |
| Catcher Processor     | 2013 | Spring   | 28184                    | 8                | 520            | 46                                     | 9   |
| Catcher Processor     | 2013 | Fall     | 49821                    | 7                | 939            | 157                                    | 17  |
| Catcher Processor     | 2014 | Spring   | 35233                    | 9                | 666            | 84                                     | 13  |
| Catcher Processor     | 2014 | Fall     | 67939                    | 9                | 1030           | 187                                    | 18  |
| Catcher Processor     | 2015 | Spring   | 42591                    | 9                | 732            | 85                                     | 12  |
| Catcher Processor     | 2015 | Fall     | 25844                    | 8                | 787            | 97                                     | 12  |
| Catcher Processor     | 2016 | Spring   | 47447                    | 9                | 872            | 58                                     | 7   |
| Catcher Processor     | 2016 | Fall     | 61334                    | 9                | 1333           | 389                                    | 29  |
| Non-Tribal Mothership | 2002 | Spring   | 26503                    | 11               | 574            | 118                                    | 21  |
| Non-Tribal Mothership | 2003 | Spring   | 25333                    | 12               | 536            | 192                                    | 36  |
| Non-Tribal Mothership | 2004 | Spring   | 24010                    | 10               | 571            | 79                                     | 14  |
| Non-Tribal Mothership | 2005 | Spring   | 37648                    | 18               | 855            | 301                                    | 35  |
| Non-Tribal Mothership | 2005 | Fall     | 10952                    | 3                | 185            | 14                                     | 8   |
| Non-Tribal Mothership | 2006 | Spring   | 42850                    | 18               | 999            | 145                                    | 15  |
| Non-Tribal Mothership | 2006 | Fall     | 11289                    | 6                | 284            | 12                                     | 4   |
| Non-Tribal Mothership | 2007 | All Year | 47276                    | 20               | 1147           | 147                                    | 13  |
| Non-Tribal Mothership | 2008 | Spring   | 32484                    | 18               | 865            | 47                                     | 5   |
| Non-Tribal Mothership | 2008 | Fall     | 25203                    | 7                | 484            | 24                                     | 5   |
| Non-Tribal Mothership | 2009 | Spring   | 24066                    | 19               | 600            | 74                                     | 12  |
| Non-Tribal Mothership | 2010 | Spring   | 33518                    | 21               | 845            | 137                                    | 16  |
| Non-Tribal Mothership | 2010 | Fall     | 2209                     | 3                | 63             | --                                     | --  |
| Non-Tribal Mothership | 2011 | Spring   | 18463                    | 9                | 492            | 77                                     | 16  |



Table 23 (continued). Observed vessels, hauls, and salmon interactions, as well as fleet landings, for the at-sea hake fishery.

| <b>Sector</b>         | <b>Year</b> | <b>Season</b> | <b>Fleet Hake Landings (mt)</b> | <b>Observed Vessels</b> | <b>Observed Hauls</b> | <b>Observed Hauls that Encountered Salmon</b> | <b>Percent of Observed Hauls that Encountered Salmon</b> |
|-----------------------|-------------|---------------|---------------------------------|-------------------------|-----------------------|---|--|
| Non-Tribal Mothership | 2011        | Fall          | 31508                           | 10                      | 756                   | 123   | 16   |
| Non-Tribal Mothership | 2012        | Spring        | 7031                            | 7                       | 200                   | 26  | 13   |
| Non-Tribal Mothership | 2012        | Fall          | 31011                           | 13                      | 749                   | 278   | 37   |
| Non-Tribal Mothership | 2013        | Spring        | 12938                           | 11                      | 376                   | 29  | 8  |
| Non-Tribal Mothership | 2013        | Fall          | 39410                           | 14                      | 880                   | 168   | 19   |
| Non-Tribal Mothership | 2014        | Spring        | 22934                           | 12                      | 482                   | 54  | 11   |
| Non-Tribal Mothership | 2014        | Fall          | 38860                           | 14                      | 826                   | 217   | 26   |
| Non-Tribal Mothership | 2015        | Spring        | 24365                           | 9                       | 510                   | 52  | 10   |
| Non-Tribal Mothership | 2015        | Fall          | 3180                            | 9                       | 130                   | 14  | 11   |
| Non-Tribal Mothership | 2016        | Spring        | 26892                           | 15                      | 670                   | 43  | 6  |
| Non-Tribal Mothership | 2016        | Fall          | 37706                           | 13                      | 895                   | 98  | 11   |
| Tribal Mothership     | 2002        | Spring        | 3923                            | 3                       | 114                   | 33  | 29   |
| Tribal Mothership     | 2002        | Fall          | 17706                           | 4                       | 519                   | 139   | 27   |
| Tribal Mothership     | 2003        | Spring        | 6276                            | 4                       | 182                   | 129   | 71   |
| Tribal Mothership     | 2003        | Fall          | 13155                           | 4                       | 358                   | 251   | 70   |
| Tribal Mothership     | 2004        | Spring        | 6458                            | 4                       | 177                   | 95  | 54   |
| Tribal Mothership     | 2004        | Fall          | 17054                           | 5                       | 455                   | 235   | 52   |
| Tribal Mothership     | 2005        | Spring        | 9288                            | 3                       | 258                   | 165   | 64   |
| Tribal Mothership     | 2005        | Fall          | 14274                           | 4                       | 375                   | 194   | 52   |
| Tribal Mothership     | 2006        | Spring        | 2730                            | 4                       | 83                    | 44  | 53   |
| Tribal Mothership     | 2006        | Fall          | 2675                            | 4                       | 77                    | 22  | 29   |
| Tribal Mothership     | 2007        | Fall          | 5129                            | 5                       | 156                   | 73  | 47   |
| Tribal Mothership     | 2008        | Fall          | 14977                           | 5                       | 382                   | 38  | 10   |
| Tribal Mothership     | 2009        | Fall          | 13469                           | 5                       | 404                   | 87  | 22   |
| Tribal Mothership     | 2010        | Spring        | 88                              | 3                       | 4                     | 3   | 75   |
| Tribal Mothership     | 2010        | Fall          | 16118                           | 6                       | 512                   | 148   | 29   |
| Tribal Mothership     | 2011        | Fall          | 6147                            | 5                       | 228                   | 79  | 35   |

Table 24. Observed salmon bycatch in the at-sea hake fishery.

| Sector                | Year | Season   | Fleet Hake Landings (mt) | Chinook Individuals | Chinook Weight (mt) | Chum Individuals | Chum Weight (mt) | Coho Individuals | Coho Weight (mt) | Pink Individuals | Pink Weight (mt) | Sockeye Individuals | Sockeye Weight (mt) | Unspecified Individuals | Unspecified Weight (mt) |
|-----------------------|------|----------|--------------------------|---------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|---------------------|---------------------|-------------------------|-------------------------|
| Catcher Processor     | 2002 | All Year | 36333                    | 954                 | 2.88                | 14               | 0.07             | 69               | 0.17             | --               | --               | --                  | --                  | --                      | --                      |
| Catcher Processor     | 2003 | Spring   | 14524                    | 508                 | 1.45                | 8                | 0.03             | --               | --               | --               | --               | --                  | --                  | --                      | --                      |
| Catcher Processor     | 2003 | Fall     | 26945                    | 62                  | 0.30                | --               | --               | --               | --               | 13               | 0.03             | --                  | --                  | --                      | --                      |
| Catcher Processor     | 2004 | Spring   | 25300                    | 361                 | 1.67                | 21               | 0.07             | 1                | 0.00             | --               | --               | --                  | --                  | --                      | --                      |
| Catcher Processor     | 2004 | Fall     | 47559                    | 55                  | 0.27                | 6                | 0.02             | --               | --               | --               | --               | --                  | --                  | --                      | --                      |
| Catcher Processor     | 2005 | Spring   | 38056                    | 1746                | 5.42                | 8                | 0.03             | 4                | 0.00             | 48               | 0.05             | --                  | --                  | --                      | --                      |
| Catcher Processor     | 2005 | Fall     | 40442                    | 8                   | 0.04                | --               | --               | --               | --               | --               | --               | --                  | --                  | --                      | --                      |
| Catcher Processor     | 2006 | Spring   | 46665                    | 112                 | 0.61                | 8                | 0.04             | 2                | 0.01             | --               | --               | --                  | --                  | --                      | --                      |
| Catcher Processor     | 2007 | Spring   | 42149                    | 434                 | 1.62                | 73               | 0.26             | 86               | 0.16             | 19               | 0.02             | --                  | --                  | --                      | --                      |
| Catcher Processor     | 2007 | Fall     | 30749                    | 299                 | 0.85                | --               | --               | 2                | 0.00             | --               | --               | --                  | --                  | --                      | --                      |
| Catcher Processor     | 2008 | Spring   | 41769                    | 81                  | 0.41                | 39               | 0.11             | 3                | 0.00             | --               | --               | 2                   | 0.00                | 2                       | 0.00                    |
| Catcher Processor     | 2008 | Fall     | 65985                    | 412                 | 1.60                | 4                | 0.02             | --               | --               | --               | --               | --                  | --                  | 16                      | 0.09                    |
| Catcher Processor     | 2009 | All Year | 34591                    | 22                  | 0.13                | --               | --               | --               | --               | --               | --               | --                  | --                  | --                      | --                      |
| Catcher Processor     | 2010 | All Year | 54217                    | 257                 | 1.20                | 4                | 0.01             | --               | --               | --               | --               | 2                   | 0.00                | --                      | --                      |
| Catcher Processor     | 2011 | Spring   | 26261                    | 137                 | 0.57                | 28               | 0.06             | --               | --               | 10               | 0.02             | --                  | --                  | 6                       | 0.01                    |
| Catcher Processor     | 2011 | Fall     | 45076                    | 2556                | 7.10                | 6                | 0.02             | --               | --               | --               | --               | --                  | --                  | --                      | --                      |
| Catcher Processor     | 2012 | Spring   | 20539                    | 407                 | 1.40                | 51               | 0.24             | 12               | 0.02             | 22               | 0.03             | --                  | --                  | --                      | --                      |
| Catcher Processor     | 2012 | Fall     | 34983                    | 1521                | 4.77                | --               | --               | 1                | 0.00             | --               | --               | --                  | --                  | --                      | --                      |
| Catcher Processor     | 2013 | Spring   | 28184                    | 87                  | 0.35                | 24               | 0.12             | --               | --               | 34               | 0.04             | --                  | --                  | 1                       | 0.00                    |
| Catcher Processor     | 2013 | Fall     | 49821                    | 1671                | 4.76                | 2                | 0.00             | --               | --               | --               | --               | --                  | --                  | --                      | --                      |
| Catcher Processor     | 2014 | Spring   | 35233                    | 357                 | 0.73                | --               | --               | 6                | 0.01             | --               | --               | --                  | --                  | --                      | --                      |
| Catcher Processor     | 2014 | Fall     | 67939                    | 3428                | 9.30                | --               | --               | 2                | 0.01             | --               | --               | --                  | --                  | 2                       | 0.00                    |
| Catcher Processor     | 2015 | Spring   | 42591                    | 309                 | 0.72                | --               | --               | 4                | 0.01             | 23               | 0.02             | --                  | --                  | --                      | --                      |
| Catcher Processor     | 2015 | Fall     | 25844                    | 1236                | 3.51                | 5                | 0.02             | --               | --               | --               | --               | --                  | --                  | --                      | --                      |
| Catcher Processor     | 2016 | Spring   | 47447                    | 107                 | 0.46                | 30               | 0.13             | 2                | 0.01             | --               | --               | --                  | --                  | --                      | --                      |
| Catcher Processor     | 2016 | Fall     | 61334                    | 2577                | 8.83                | --               | --               | --               | --               | --               | --               | --                  | --                  | --                      | --                      |
| Non-Tribal Mothership | 2002 | Spring   | 26503                    | 709                 | 2.31                | 10               | 0.06             | 77               | 0.25             | --               | --               | --                  | --                  | 3                       | 0.02                    |
| Non-Tribal Mothership | 2003 | Spring   | 25333                    | 2047                | 5.52                | 3                | 0.01             | 3                | 0.01             | 4                | 0.00             | --                  | --                  | 186                     | 0.44                    |
| Non-Tribal Mothership | 2004 | Spring   | 24010                    | 387                 | 1.19                | 28               | 0.10             | --               | --               | --               | --               | --                  | --                  | --                      | --                      |
| Non-Tribal Mothership | 2005 | Spring   | 37648                    | 2141                | 6.40                | 12               | 0.04             | 82               | 0.19             | --               | --               | --                  | --                  | --                      | --                      |
| Non-Tribal Mothership | 2005 | Fall     | 10952                    | 63                  | 0.38                | --               | --               | --               | --               | --               | --               | --                  | --                  | --                      | --                      |
| Non-Tribal Mothership | 2006 | Spring   | 42850                    | 997                 | 3.82                | 79               | 0.43             | 26               | 0.08             | --               | --               | --                  | --                  | --                      | --                      |
| Non-Tribal Mothership | 2006 | Fall     | 11289                    | 83                  | 0.24                | --               | --               | --               | --               | --               | --               | --                  | --                  | --                      | --                      |

Table 24 (continued). Observed salmon bycatch in the at-sea hake fishery.

| Sector                | Year | Season   | Fleet Hake Landings (mt) | Chinook Individuals | Chinook Weight (mt) | Chum Individuals | Chum Weight (mt) | Coho Individuals | Coho Weight (mt) | Pink Individuals | Pink Weight (mt) | Sockeye Individuals | Sockeye Weight (mt) | Unspecified Individuals | Unspecified Weight (mt) |
|-----------------------|------|----------|--------------------------|---------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|---------------------|---------------------|-------------------------|-------------------------|
| Non-Tribal Mothership | 2007 | All Year | 47276                    | 584                 | 1.73                | 96               | 0.34             | 138              | 0.35             | 15               | 0.02             | --                  | --                  | --                      | --                      |
| Non-Tribal Mothership | 2008 | Spring   | 32484                    | 123                 | 0.53                | 17               | 0.07             | 3                | 0.00             | --               | --               | --                  | --                  | --                      | --                      |
| Non-Tribal Mothership | 2008 | Fall     | 25203                    | 102                 | 0.40                | --               | --               | 15               | 0.04             | --               | --               | --                  | --                  | --                      | --                      |
| Non-Tribal Mothership | 2009 | Spring   | 24066                    | 296                 | 1.10                | 41               | 0.16             | 12               | 0.02             | 2                | 0.00             | --                  | --                  | --                      | --                      |
| Non-Tribal Mothership | 2010 | Spring   | 33518                    | 457                 | 1.68                | 6                | 0.02             | --               | --               | --               | --               | --                  | --                  | 2                       | 0.00                    |
| Non-Tribal Mothership | 2011 | Spring   | 18463                    | 173                 | 0.89                | 12               | 0.05             | 5                | 0.01             | 2                | 0.00             | --                  | --                  | --                      | --                      |
| Non-Tribal Mothership | 2011 | Fall     | 31508                    | 1123                | 3.41                | --               | --               | --               | --               | --               | --               | --                  | --                  | --                      | --                      |
| Non-Tribal Mothership | 2012 | Spring   | 7031                     | 52                  | 0.18                | 2                | 0.01             | 4                | 0.01             | --               | --               | --                  | --                  | --                      | --                      |
| Non-Tribal Mothership | 2012 | Fall     | 31011                    | 2229                | 6.66                | --               | --               | --               | --               | --               | --               | --                  | --                  | --                      | --                      |
| Non-Tribal Mothership | 2013 | Spring   | 12938                    | 92                  | 0.43                | --               | --               | 2                | 0.00             | 2                | 0.00             | --                  | --                  | --                      | --                      |
| Non-Tribal Mothership | 2013 | Fall     | 39410                    | 1889                | 5.42                | --               | --               | 4                | 0.02             | 1                | 0.00             | --                  | --                  | --                      | --                      |
| Non-Tribal Mothership | 2014 | Spring   | 22934                    | 618                 | 1.34                | 2                | 0.01             | 8                | 0.03             | --               | --               | --                  | --                  | --                      | --                      |
| Non-Tribal Mothership | 2014 | Fall     | 38860                    | 2292                | 5.13                | 2                | 0.01             | 88               | 0.15             | --               | --               | --                  | --                  | --                      | --                      |
| Non-Tribal Mothership | 2015 | Spring   | 24365                    | 131                 | 0.57                | --               | --               | --               | --               | --               | --               | --                  | --                  | --                      | --                      |
| Non-Tribal Mothership | 2015 | Fall     | 3180                     | 130                 | 0.23                | --               | --               | --               | --               | --               | --               | --                  | --                  | --                      | --                      |
| Non-Tribal Mothership | 2016 | Spring   | 26892                    | 72                  | 0.53                | 9                | 0.05             | --               | --               | --               | --               | 4                   | 0.01                | --                      | --                      |
| Non-Tribal Mothership | 2016 | Fall     | 37706                    | 295                 | 1.11                | 2                | 0.01             | --               | --               | --               | --               | 2                   | 0.00                | --                      | --                      |
| Tribal Mothership     | 2002 | Spring   | 3923                     | 232                 | 0.84                | 33               | 0.16             | --               | --               | --               | --               | --                  | --                  | --                      | --                      |
| Tribal Mothership     | 2002 | Fall     | 17706                    | 772                 | 2.48                | 18               | 0.07             | 23               | 0.05             | --               | --               | --                  | --                  | 1                       | 0.00                    |
| Tribal Mothership     | 2003 | Spring   | 6276                     | 1571                | 3.07                | 9                | 0.03             | 56               | 0.09             | 3                | 0.00             | --                  | --                  | --                      | --                      |
| Tribal Mothership     | 2003 | Fall     | 13155                    | 1833                | 5.90                | --               | --               | 135              | 0.27             | 3744             | 6.40             | --                  | --                  | --                      | --                      |
| Tribal Mothership     | 2004 | Spring   | 6458                     | 661                 | 2.09                | 11               | 0.05             | --               | --               | --               | --               | --                  | --                  | --                      | --                      |
| Tribal Mothership     | 2004 | Fall     | 17054                    | 3032                | 6.21                | --               | --               | 207              | 0.57             | --               | --               | --                  | --                  | 9                       | 0.01                    |
| Tribal Mothership     | 2005 | Spring   | 9288                     | 1811                | 3.65                | 2                | 0.01             | 180              | 0.30             | 26               | 0.03             | --                  | --                  | 2                       | 0.00                    |
| Tribal Mothership     | 2005 | Fall     | 14274                    | 2093                | 5.02                | --               | --               | 164              | 0.31             | 357              | 0.54             | --                  | --                  | 6                       | 0.01                    |
| Tribal Mothership     | 2006 | Spring   | 2730                     | 557                 | 1.14                | 6                | 0.03             | 3                | 0.01             | --               | --               | --                  | --                  | --                      | --                      |
| Tribal Mothership     | 2006 | Fall     | 2675                     | 103                 | 0.21                | 18               | 0.04             | --               | --               | --               | --               | --                  | --                  | --                      | --                      |
| Tribal Mothership     | 2007 | Fall     | 5129                     | 710                 | 1.02                | --               | --               | 9                | 0.03             | --               | --               | --                  | --                  | --                      | --                      |
| Tribal Mothership     | 2008 | Fall     | 14977                    | 157                 | 0.47                | --               | --               | --               | --               | --               | --               | --                  | --                  | --                      | --                      |
| Tribal Mothership     | 2009 | Fall     | 13469                    | 824                 | 1.37                | 11               | 0.05             | 8                | 0.02             | --               | --               | --                  | --                  | --                      | --                      |
| Tribal Mothership     | 2010 | Spring   | 88                       | 8                   | 0.02                | --               | --               | --               | --               | --               | --               | --                  | --                  | --                      | --                      |
| Tribal Mothership     | 2010 | Fall     | 16118                    | 642                 | 1.87                | 1                | 0.00             | 5                | 0.01             | --               | --               | --                  | --                  | --                      | --                      |
| Tribal Mothership     | 2011 | Fall     | 6147                     | 371                 | 0.62                | 19               | 0.07             | 10               | 0.02             | 382              | 0.65             | --                  | --                  | --                      | --                      |

Table 25a. Summary of salmon bycatch count and weight by species and sector, 2002–06. Bycatch in the shoreside catch shares fisheries include both EM and 100% observed sub-sectors.

| Species | Sector Group          | Sector   | 2002:<br>Individuals | 2002:<br>Weight (mt) | 2003:<br>Individuals | 2003:<br>Weight (mt) | 2004:<br>Individuals | 2004:<br>Weight (mt) | 2005:<br>Individuals | 2005:<br>Weight (mt) | 2006:<br>Individuals | 2006:<br>Weight (mt) |
|---------|-----------------------|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Chinook | Non-Catch Shares      | Combined LE & OA CA Halibut                      | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chinook | Non-Catch Shares      | EFP  | 22                   | 0.0594               | 51                   | 0.0733               | 3                    | 0.0215               | --                   | --                   | --                   | --                   |
| Chinook | Non-Catch Shares      | LE CA Halibut                                    | 381                  | 0.3655               | 120                  | 0.1238               | 492                  | 0.7634               | 423                  | 0.7930               | 107                  | 0.1759               |
| Chinook | Non-Catch Shares      | Limited Entry Trawl                              | 15384                | 25.8929              | 16855                | 29.8570              | 1773                 | 3.7173               | 816                  | 1.6270               | 61                   | 0.0883               |
| Chinook | Non-Catch Shares      | Nearshore  | --                   | --                   | 22                   | 0.1241               | 39                   | 0.0748               | 31                   | 0.0764               | 19                   | 0.1465               |
| Chinook | Non-Catch Shares      | OA CA Halibut                                    | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chinook | Non-Catch Shares      | Pink Shrimp                                      | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chinook | Non-Hake Catch Shares | CS - Bottom and Midwater Trawl and LE CA Halibut | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chinook | Non-Hake Catch Shares | CS - Bottom Trawl and LE California Halibut      | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chinook | Non-Hake Catch Shares | CS - Non-Hake Midwater Trawl                     | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chinook | Non-Hake Catch Shares | Midwater Rockfish                                | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chinook | Hake Sectors          | Catcher Processor                                | 954                  | 2.8768               | 570                  | 1.7463               | 416                  | 1.9362               | 1754                 | 5.4609               | 112                  | 0.6124               |
| Chinook | Hake Sectors          | Non-Tribal Mothership                            | 709                  | 2.3091               | 2047                 | 5.5153               | 387                  | 1.1892               | 2204                 | 6.7789               | 1080                 | 4.0604               |
| Chinook | Hake Sectors          | Midwater Hake                                    | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chinook | Hake Sectors          | Shoreside Hake                                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chinook | Hake Sectors          | Shoreside - EFP                                  | 1062                 | --                   | 425                  | --                   | 4206                 | --                   | 4018                 | --                   | 839                  | --                   |
| Chinook | Hake Sectors          | Shoreside - Tribal                               | --                   | --                   | 9                    | --                   | 50                   | --                   | 76                   | --                   | 1271                 | --                   |
| Chinook | Hake Sectors          | Tribal Mothership                                | 1004                 | 3.3206               | 3404                 | 8.9696               | 3693                 | 8.3022               | 3904                 | 8.6681               | 660                  | 1.3527               |
| Chum    | Non-Catch Shares      | Limited Entry Trawl                              | 14                   | 0.0556               | 38                   | 0.1217               | 4                    | 0.0097               | --                   | --                   | --                   | --                   |
| Chum    | Non-Catch Shares      | Pink Shrimp                                      | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chum    | Non-Hake Catch Shares | CS - Non-Hake Midwater Trawl                     | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chum    | Non-Hake Catch Shares | Midwater Rockfish                                | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chum    | Hake Sectors          | Catcher Processor                                | 14                   | 0.0683               | 8                    | 0.0295               | 27                   | 0.0906               | 8                    | 0.0272               | 8                    | 0.0381               |
| Chum    | Hake Sectors          | Non-Tribal Mothership                            | 10                   | 0.0591               | 3                    | 0.0129               | 28                   | 0.1018               | 12                   | 0.0428               | 79                   | 0.4251               |
| Chum    | Hake Sectors          | Midwater Hake                                    | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chum    | Hake Sectors          | Shoreside Hake                                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chum    | Hake Sectors          | Shoreside - EFP                                  | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chum    | Hake Sectors          | Shoreside - Tribal                               | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chum    | Hake Sectors          | Tribal Mothership                                | 51                   | 0.2298               | 9                    | 0.0295               | 11                   | 0.0507               | 2                    | 0.0092               | 24                   | 0.0687               |
| Coho    | Non-Catch Shares      | LE CA Halibut                                    | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | 48                   | 0.1929               |
| Coho    | Non-Catch Shares      | LE Sablefish - Hook and Line                     | --                   | --                   | 3                    | 0.0118               | --                   | --                   | 3                    | 0.0111               | --                   | --                   |

Table 25a (continued). Summary of salmon bycatch count and weight by species and sector, 2002–06.

| Species     | Sector Group          | Sector   | 2002:<br>Individuals | 2002:<br>Weight (mt) | 2003:<br>Individuals | 2003:<br>Weight (mt) | 2004:<br>Individuals | 2004:<br>Weight (mt) | 2005:<br>Individuals | 2005:<br>Weight (mt) | 2006:<br>Individuals | 2006:<br>Weight (mt) |
|-------------|-----------------------|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Coho        | Non-Catch Shares      | Limited Entry Trawl                              | 26                   | 0.0200               | 32                   | 0.0706               | 67                   | 0.2024               | 5                    | 0.0065               | --                   | --                   |
| Coho        | Non-Catch Shares      | Nearshore  | --                   | --                   | --                   | --                   | 45                   | 0.1949               | --                   | --                   | --                   | --                   |
| Coho        | Non-Catch Shares      | Pink Shrimp                                      | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Coho        | Non-Hake Catch Shares | CS - Bottom and Midwater Trawl and LE CA Halibut | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Coho        | Non-Hake Catch Shares | CS - Bottom Trawl and LE California Halibut      | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Coho        | Non-Hake Catch Shares | CS - Hook and Line                               | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Coho        | Non-Hake Catch Shares | CS - Non-Hake Midwater Trawl                     | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Coho        | Non-Hake Catch Shares | Midwater Rockfish                                | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Coho        | Hake Sectors          | Catcher Processor                                | 69                   | 0.1699               | --                   | --                   | 1                    | 0.0019               | 4                    | 0.0043               | 2                    | 0.0085               |
| Coho        | Hake Sectors          | Non-Tribal Mothership                            | 77                   | 0.2542               | 3                    | 0.0072               | --                   | --                   | 82                   | 0.1868               | 26                   | 0.0757               |
| Coho        | Hake Sectors          | Midwater Hake                                    | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Coho        | Hake Sectors          | Shoreside Hake                                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Coho        | Hake Sectors          | Shoreside - EFP                                  | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Coho        | Hake Sectors          | Shoreside - Tribal                               | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Coho        | Hake Sectors          | Tribal Mothership                                | 23                   | 0.0538               | 191                  | 0.3574               | 207                  | 0.5657               | 344                  | 0.6104               | 3                    | 0.0067               |
| Pink        | Non-Catch Shares      | Limited Entry Trawl                              | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Pink        | Non-Hake Catch Shares | CS - Bottom Trawl and LE California Halibut      | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Pink        | Hake Sectors          | Catcher Processor                                | --                   | --                   | 13                   | 0.0258               | --                   | --                   | 48                   | 0.0533               | --                   | --                   |
| Pink        | Hake Sectors          | Non-Tribal Mothership                            | --                   | --                   | 4                    | 0.0031               | --                   | --                   | --                   | --                   | --                   | --                   |
| Pink        | Hake Sectors          | Shoreside Hake                                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Pink        | Hake Sectors          | Shoreside - EFP                                  | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Pink        | Hake Sectors          | Shoreside - Tribal                               | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Pink        | Hake Sectors          | Tribal Mothership                                | --                   | --                   | 3747                 | 6.4025               | --                   | --                   | 383                  | 0.5772               | --                   | --                   |
| Sockeye     | Non-Hake Catch Shares | CS - Bottom and Midwater Trawl and LE CA Halibut | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Sockeye     | Hake Sectors          | Catcher Processor                                | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Sockeye     | Hake Sectors          | Non-Tribal Mothership                            | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Sockeye     | Hake Sectors          | Shoreside Hake                                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Sockeye     | Hake Sectors          | Shoreside - Tribal                               | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Unspecified | Non-Catch Shares      | LE CA Halibut                                    | 147                  | 0.0718               | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Unspecified | Non-Catch Shares      | LE Sablefish - Hook and Line                     | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Unspecified | Non-Catch Shares      | Limited Entry Trawl                              | 15                   | 0.0375               | 4                    | 0.0102               | 38                   | 0.1035               | --                   | --                   | --                   | --                   |

Table 25a (continued). Summary of salmon bycatch count and weight by species and sector, 2002–06.

| Species     | Sector Group          | Sector                                      | 2002:<br>Individuals | 2002:<br>Weight (mt) | 2003:<br>Individuals | 2003:<br>Weight (mt) | 2004:<br>Individuals | 2004:<br>Weight (mt) | 2005:<br>Individuals | 2005:<br>Weight (mt) | 2006:<br>Individuals | 2006:<br>Weight (mt) |
|-------------|-----------------------|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Unspecified | Non-Catch Shares      | Nearshore                                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Unspecified | Non-Catch Shares      | OA CA Halibut                               | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Unspecified | Non-Hake Catch Shares | CS - Bottom Trawl and LE California Halibut | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Unspecified | Hake Sectors          | Catcher Processor                           | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Unspecified | Hake Sectors          | Non-Tribal Mothership                       | 3                    | 0.0181               | 186                  | 0.4414               | --                   | --                   | --                   | --                   | --                   | --                   |
| Unspecified | Hake Sectors          | Shoreside Hake                              | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Unspecified | Hake Sectors          | Shoreside - EFP                             | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | 21                   | --                   |
| Unspecified | Hake Sectors          | Shoreside - Tribal                          | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | 2                    | --                   |
| Unspecified | Hake Sectors          | Tribal Mothership                           | 1                    | 0.0020               | --                   | --                   | 9                    | 0.0079               | 8                    | 0.0139               | --                   | --                   |

Table 25b. Summary of salmon bycatch count and weight by species and sector, 2007–11. Bycatch in the shoreside catch shares fisheries include both EM and 100% observed sub-sectors.

| Species | Sector Group          | Sector   | 2007:<br>Individuals | 2007:<br>Weight (mt) | 2008:<br>Individuals | 2008:<br>Weight (mt) | 2009:<br>Individuals | 2009:<br>Weight (mt) | 2010:<br>Individuals | 2010:<br>Weight (mt) | 2011:<br>Individuals | 2011:<br>Weight (mt) |
|---------|-----------------------|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Chinook | Non-Catch Shares      | Combined LE & OA CA Halibut                      | --                   | --                   | --                   | --                   | --                   | --                   | 17                   | 0.0136               | --                   | --                   |
| Chinook | Non-Catch Shares      | EFP  | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chinook | Non-Catch Shares      | LE CA Halibut                                    | 61                   | 0.1549               | 75                   | 0.1688               | --                   | --                   | --                   | --                   | --                   | --                   |
| Chinook | Non-Catch Shares      | Limited Entry Trawl                              | 191                  | 0.3564               | 419                  | 0.7002               | 308                  | 0.4559               | 237                  | 0.2315               | --                   | --                   |
| Chinook | Non-Catch Shares      | Nearshore  | --                   | --                   | --                   | --                   | 22                   | 0.0869               | 16                   | 0.1424               | 8                    | 0.0470               |
| Chinook | Non-Catch Shares      | OA CA Halibut                                    | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | 45                   | 0.0218               |
| Chinook | Non-Catch Shares      | Pink Shrimp                                      | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chinook | Non-Hake Catch Shares | CS - Bottom and Midwater Trawl and LE CA Halibut | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | 175                  | 0.3073               |
| Chinook | Non-Hake Catch Shares | CS - Bottom Trawl and LE California Halibut      | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |

Table 25b (continued). Summary of salmon bycatch count and weight by species and sector, 2007–11.

| Species | Sector Group          | Sector   | 2007:<br>Individuals | 2007:<br>Weight (mt) | 2008:<br>Individuals | 2008:<br>Weight (mt) | 2009:<br>Individuals | 2009:<br>Weight (mt) | 2010:<br>Individuals | 2010:<br>Weight (mt) | 2011:<br>Individuals | 2011:<br>Weight (mt) |
|---------|-----------------------|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Chinook | Non-Hake Catch Shares | CS - Non-Hake Midwater Trawl                     | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chinook | Non-Hake Catch Shares | Midwater Rockfish                                | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chinook | Hake Sectors          | Catcher Processor                                | 733                  | 2.4691               | 493                  | 2.0144               | 22                   | 0.1304               | 257                  | 1.1999               | 2693                 | 7.6643               |
| Chinook | Hake Sectors          | Non-Tribal Mothership                            | 584                  | 1.7260               | 225                  | 0.9306               | 296                  | 1.0982               | 457                  | 1.6791               | 1296                 | 4.2958               |
| Chinook | Hake Sectors          | Midwater Hake                                    | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chinook | Hake Sectors          | Shoreside Hake                                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | 3722                 | 12.0192              |
| Chinook | Hake Sectors          | Shoreside - EFP                                  | 2462                 | --                   | 1962                 | --                   | 279                  | --                   | 2997                 | --                   | --                   | --                   |
| Chinook | Hake Sectors          | Shoreside - Tribal                               | 1690                 | --                   | 539                  | --                   | 1321                 | --                   | 28                   | --                   | 457                  | 1874.0000            |
| Chinook | Hake Sectors          | Tribal Mothership                                | 710                  | 1.0192               | 157                  | 0.4694               | 824                  | 1.3747               | 650                  | 1.8843               | 371                  | 0.6209               |
| Chum    | Non-Catch Shares      | Limited Entry Trawl                              | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chum    | Non-Catch Shares      | Pink Shrimp                                      | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chum    | Non-Hake Catch Shares | CS - Non-Hake Midwater Trawl                     | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chum    | Non-Hake Catch Shares | Midwater Rockfish                                | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chum    | Hake Sectors          | Catcher Processor                                | 73                   | 0.2588               | 43                   | 0.1300               | --                   | --                   | 4                    | 0.0095               | 34                   | 0.0860               |
| Chum    | Hake Sectors          | Non-Tribal Mothership                            | 96                   | 0.3426               | 17                   | 0.0688               | 41                   | 0.1590               | 6                    | 0.0160               | 12                   | 0.0460               |
| Chum    | Hake Sectors          | Midwater Hake                                    | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chum    | Hake Sectors          | Shoreside Hake                                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | 42                   | 0.1624               |
| Chum    | Hake Sectors          | Shoreside - EFP                                  | 113                  | --                   | 8                    | --                   | 2                    | --                   | 8                    | --                   | --                   | --                   |
| Chum    | Hake Sectors          | Shoreside - Tribal                               | 8                    | --                   | 11                   | --                   | --                   | --                   | --                   | --                   | 4                    | 34.0000              |
| Chum    | Hake Sectors          | Tribal Mothership                                | --                   | --                   | --                   | --                   | 11                   | 0.0539               | 1                    | 0.0034               | 19                   | 0.0665               |
| Coho    | Non-Catch Shares      | LE CA Halibut                                    | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Coho    | Non-Catch Shares      | LE Sablefish - Hook and Line                     | 4                    | 0.0095               | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Coho    | Non-Catch Shares      | Limited Entry Trawl                              | 13                   | 0.0156               | --                   | --                   | --                   | --                   | 31                   | 0.0713               | --                   | --                   |
| Coho    | Non-Catch Shares      | Nearshore  | 11                   | 0.0114               | 41                   | 0.1721               | 69                   | 0.1907               | 41                   | 0.2089               | 63                   | 0.2131               |
| Coho    | Non-Catch Shares      | Pink Shrimp                                      | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Coho    | Non-Hake Catch Shares | CS - Bottom and Midwater Trawl and LE CA Halibut | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | 19                   | 0.0320               |
| Coho    | Non-Hake Catch Shares | CS - Bottom Trawl and LE California Halibut      | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Coho    | Non-Hake Catch Shares | CS - Hook and Line                               | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Coho    | Non-Hake Catch Shares | CS - Non-Hake Midwater Trawl                     | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Coho    | Non-Hake Catch Shares | Midwater Rockfish                                | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Coho    | Hake Sectors          | Catcher Processor                                | 88                   | 0.1606               | 3                    | 0.0050               | --                   | --                   | --                   | --                   | --                   | --                   |

Table 25b (continued). Summary of salmon bycatch count and weight by species and sector, 2007–11.

| Species     | Sector Group          | Sector   | 2007:<br>Individuals | 2007:<br>Weight (mt) | 2008:<br>Individuals | 2008:<br>Weight (mt) | 2009:<br>Individuals | 2009:<br>Weight (mt) | 2010:<br>Individuals | 2010:<br>Weight (mt) | 2011:<br>Individuals | 2011:<br>Weight (mt) |
|-------------|-----------------------|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Coho        | Hake Sectors          | Non-Tribal Mothership                            | 138                  | 0.3472               | 18                   | 0.0421               | 12                   | 0.0164               | --                   | --                   | 5                    | 0.0073               |
| Coho        | Hake Sectors          | Midwater Hake                                    | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Coho        | Hake Sectors          | Shoreside Hake                                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | 136                  | 0.4129               |
| Coho        | Hake Sectors          | Shoreside - EFP                                  | 141                  | --                   | 10                   | --                   | 37                   | --                   | 16                   | --                   | --                   | --                   |
| Coho        | Hake Sectors          | Shoreside - Tribal                               | 98                   | --                   | 21                   | --                   | 49                   | --                   | --                   | --                   | 18                   | 85.0000              |
| Coho        | Hake Sectors          | Tribal Mothership                                | 9                    | 0.0323               | --                   | --                   | 8                    | 0.0192               | 5                    | 0.0103               | 10                   | 0.0221               |
| Pink        | Non-Catch Shares      | Limited Entry Trawl                              | --                   | --                   | --                   | --                   | 2                    | 0.0023               | --                   | --                   | --                   | --                   |
| Pink        | Non-Hake Catch Shares | CS - Bottom Trawl and LE California Halibut      | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Pink        | Hake Sectors          | Catcher Processor                                | 19                   | 0.0188               | --                   | --                   | --                   | --                   | --                   | --                   | 10                   | 0.0159               |
| Pink        | Hake Sectors          | Non-Tribal Mothership                            | 15                   | 0.0195               | --                   | --                   | 2                    | 0.0023               | --                   | --                   | 2                    | 0.0027               |
| Pink        | Hake Sectors          | Shoreside Hake                                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | 6113                 | 11.4876              |
| Pink        | Hake Sectors          | Shoreside - EFP                                  | 47                   | --                   | 7                    | --                   | 26                   | --                   | --                   | --                   | --                   | --                   |
| Pink        | Hake Sectors          | Shoreside - Tribal                               | 513                  | --                   | 9                    | --                   | 129                  | --                   | --                   | --                   | 705                  | 2926.0000            |
| Pink        | Hake Sectors          | Tribal Mothership                                | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | 382                  | 0.6465               |
| Sockeye     | Non-Hake Catch Shares | CS - Bottom and Midwater Trawl and LE CA Halibut | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | 1                    | 0.0007               |
| Sockeye     | Hake Sectors          | Catcher Processor                                | --                   | --                   | 2                    | 0.0038               | --                   | --                   | 2                    | 0.0033               | --                   | --                   |
| Sockeye     | Hake Sectors          | Non-Tribal Mothership                            | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Sockeye     | Hake Sectors          | Shoreside Hake                                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | 2                    | 0.0032               |
| Sockeye     | Hake Sectors          | Shoreside - Tribal                               | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | 2                    | 11.0000              |
| Unspecified | Non-Catch Shares      | LE CA Halibut                                    | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Unspecified | Non-Catch Shares      | LE Sablefish - Hook and Line                     | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Unspecified | Non-Catch Shares      | Limited Entry Trawl                              | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Unspecified | Non-Catch Shares      | Nearshore  | --                   | --                   | --                   | --                   | --                   | --                   | 26                   | 0.1621               | --                   | --                   |
| Unspecified | Non-Catch Shares      | OA CA Halibut                                    | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Unspecified | Non-Hake Catch Shares | CS - Bottom Trawl and LE California Halibut      | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Unspecified | Hake Sectors          | Catcher Processor                                | --                   | --                   | 18                   | 0.0887               | --                   | --                   | --                   | --                   | 6                    | 0.0143               |
| Unspecified | Hake Sectors          | Non-Tribal Mothership                            | --                   | --                   | --                   | --                   | --                   | --                   | 2                    | 0.0041               | --                   | --                   |
| Unspecified | Hake Sectors          | Shoreside Hake                                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Unspecified | Hake Sectors          | Shoreside - EFP                                  | --                   | --                   | --                   | --                   | --                   | --                   | 2                    | --                   | --                   | --                   |
| Unspecified | Hake Sectors          | Shoreside - Tribal                               | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Unspecified | Hake Sectors          | Tribal Mothership                                | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |



Table 25c. Summary of salmon bycatch count and weight by species and sector, 2012–16. Bycatch in the shoreside catch shares fisheries include both EM and 100% observed sub-sectors.

| Species | Sector Group          | Sector   | 2012:<br>Individuals | 2012:<br>Weight (mt) | 2013:<br>Individuals | 2013:<br>Weight (mt) | 2014:<br>Individuals | 2014:<br>Weight (mt) | 2015:<br>Individuals | 2015:<br>Weight (mt) | 2016:<br>Individuals | 2016:<br>Weight (mt) |
|---------|-----------------------|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Chinook | Non-Catch Shares      | Combined LE & OA CA Halibut                      | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chinook | Non-Catch Shares      | EFP  | --                   | --                   | --                   | --                   | 1                    | 0.0100               | --                   | --                   | --                   | --                   |
| Chinook | Non-Catch Shares      | LE CA Halibut                                    | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chinook | Non-Catch Shares      | Limited Entry Trawl                              | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chinook | Non-Catch Shares      | Nearshore  | 63                   | 0.3140               | 122                  | 0.6994               | 34                   | 0.3001               | 40                   | 0.1597               | 15                   | 0.0703               |
| Chinook | Non-Catch Shares      | OA CA Halibut                                    | --                   | --                   | 96                   | 0.0419               | 4                    | 0.0008               | 132                  | 0.2949               | 187                  | 0.5325               |
| Chinook | Non-Catch Shares      | Pink Shrimp                                      | 2                    | 0.0013               | --                   | --                   | --                   | --                   | --                   | --                   | 47                   | 0.0025               |
| Chinook | Non-Hake Catch Shares | CS - Bottom and Midwater Trawl and LE CA Halibut | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chinook | Non-Hake Catch Shares | CS - Bottom Trawl and LE California Halibut      | 304                  | 0.5000               | 323                  | 0.5867               | 984                  | 1.6442               | 1020                 | 2.0216               | 374                  | 0.8394               |
| Chinook | Non-Hake Catch Shares | CS - Non-Hake Midwater Trawl                     | 12                   | 0.0320               | 71                   | 0.2604               | 661                  | 1.3000               | --                   | --                   | --                   | --                   |
| Chinook | Non-Hake Catch Shares | Midwater Rockfish                                | --                   | --                   | --                   | --                   | --                   | --                   | 482                  | 1.9411               | 47                   | 0.1992               |
| Chinook | Hake Sectors          | Catcher Processor                                | 1928                 | 6.1682               | 1758                 | 5.1068               | 3785                 | 10.0316              | 1545                 | 4.2315               | 2684                 | 9.2902               |
| Chinook | Hake Sectors          | Non-Tribal Mothership                            | 2281                 | 6.8400               | 1981                 | 5.8499               | 2910                 | 6.4753               | 261                  | 0.7968               | 367                  | 1.6322               |
| Chinook | Hake Sectors          | Midwater Hake                                    | --                   | --                   | --                   | --                   | --                   | --                   | 2002                 | 8.3897               | 738                  | 4.0502               |
| Chinook | Hake Sectors          | Shoreside Hake                                   | 2359                 | 7.4017               | 1263                 | 4.5553               | 6898                 | 17.9748              | --                   | --                   | --                   | --                   |
| Chinook | Hake Sectors          | Shoreside - EFP                                  | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chinook | Hake Sectors          | Shoreside - Tribal                               | 17                   | 97.0000              | 1014                 | 3856.0000            | 45                   | 311.0000             | 3                    | 26.0000              | 10                   | 43.0000              |
| Chinook | Hake Sectors          | Tribal Mothership                                | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chum    | Non-Catch Shares      | Limited Entry Trawl                              | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chum    | Non-Catch Shares      | Pink Shrimp                                      | --                   | --                   | --                   | --                   | --                   | --                   | 53                   | 0.0016               | --                   | --                   |
| Chum    | Non-Hake Catch Shares | CS - Non-Hake Midwater Trawl                     | --                   | --                   | 1                    | 0.0057               | --                   | --                   | --                   | --                   | --                   | --                   |
| Chum    | Non-Hake Catch Shares | Midwater Rockfish                                | --                   | --                   | --                   | --                   | --                   | --                   | 5                    | 0.0172               | --                   | --                   |
| Chum    | Hake Sectors          | Catcher Processor                                | 51                   | 0.2389               | 26                   | 0.1206               | --                   | --                   | 5                    | 0.0154               | 30                   | 0.1314               |
| Chum    | Hake Sectors          | Non-Tribal Mothership                            | 2                    | 0.0087               | --                   | --                   | 4                    | 0.0190               | --                   | --                   | 11                   | 0.0595               |
| Chum    | Hake Sectors          | Midwater Hake                                    | --                   | --                   | --                   | --                   | --                   | --                   | 7                    | 0.0295               | 21                   | 0.0858               |
| Chum    | Hake Sectors          | Shoreside Hake                                   | 3                    | 0.0129               | 7                    | 0.0309               | 4                    | 0.0284               | --                   | --                   | --                   | --                   |
| Chum    | Hake Sectors          | Shoreside - EFP                                  | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Chum    | Hake Sectors          | Shoreside - Tribal                               | --                   | --                   | 5                    | 1.0000               | --                   | --                   | --                   | --                   | --                   | --                   |
| Chum    | Hake Sectors          | Tribal Mothership                                | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Coho    | Non-Catch Shares      | LE CA Halibut                                    | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Coho    | Non-Catch Shares      | LE Sablefish - Hook and Line                     | --                   | --                   | --                   | --                   | 22                   | 0.0754               | 3                    | 0.0085               | --                   | --                   |

Table 25c (continued). Summary of salmon bycatch count and weight by species and sector, 2012–16.

| Species     | Sector Group          | Sector   | 2012:<br>Individuals | 2012:<br>Weight (mt) | 2013:<br>Individuals | 2013:<br>Weight (mt) | 2014:<br>Individuals | 2014:<br>Weight (mt) | 2015:<br>Individuals | 2015:<br>Weight (mt) | 2016:<br>Individuals | 2016:<br>Weight (mt) |
|-------------|-----------------------|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Coho        | Non-Catch Shares      | Limited Entry Trawl                              | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Coho        | Non-Catch Shares      | Nearshore  | 16                   | 0.0604               | 18                   | 0.0583               | 66                   | 0.1777               | 28                   | 0.0437               | 9                    | 0.0039               |
| Coho        | Non-Catch Shares      | Pink Shrimp                                      | --                   | --                   | --                   | --                   | --                   | --                   | 27                   | 0.0021               | --                   | --                   |
| Coho        | Non-Hake Catch Shares | CS - Bottom and Midwater Trawl and LE CA Halibut | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Coho        | Non-Hake Catch Shares | CS - Bottom Trawl and LE California Halibut      | 27                   | 0.0457               | 49                   | 0.0622               | 18                   | 0.0409               | 1                    | 0.0013               | 9                    | 0.0125               |
| Coho        | Non-Hake Catch Shares | CS - Hook and Line                               | --                   | --                   | --                   | --                   | 15                   | 0.0642               | --                   | --                   | --                   | --                   |
| Coho        | Non-Hake Catch Shares | CS - Non-Hake Midwater Trawl                     | --                   | --                   | --                   | --                   | 12                   | 0.0354               | --                   | --                   | --                   | --                   |
| Coho        | Non-Hake Catch Shares | Midwater Rockfish                                | --                   | --                   | --                   | --                   | --                   | --                   | 7                    | 0.0227               | --                   | --                   |
| Coho        | Hake Sectors          | Catcher Processor                                | 13                   | 0.0202               | --                   | --                   | 8                    | 0.0173               | 4                    | 0.0077               | 2                    | 0.0054               |
| Coho        | Hake Sectors          | Non-Tribal Mothership                            | 4                    | 0.0062               | 6                    | 0.0203               | 96                   | 0.1755               | --                   | --                   | --                   | --                   |
| Coho        | Hake Sectors          | Midwater Hake                                    | --                   | --                   | --                   | --                   | --                   | --                   | 9                    | 0.0200               | 5                    | 0.0145               |
| Coho        | Hake Sectors          | Shoreside Hake                                   | 16                   | 0.0399               | 33                   | 0.1383               | 167                  | 0.4128               | --                   | --                   | --                   | --                   |
| Coho        | Hake Sectors          | Shoreside - EFP                                  | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Coho        | Hake Sectors          | Shoreside - Tribal                               | --                   | --                   | 78                   | 439.0000             | --                   | --                   | --                   | --                   | --                   | --                   |
| Coho        | Hake Sectors          | Tribal Mothership                                | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Pink        | Non-Catch Shares      | Limited Entry Trawl                              | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Pink        | Non-Hake Catch Shares | CS - Bottom Trawl and LE California Halibut      | 2                    | 0.0018               | --                   | --                   | 2                    | 0.0027               | --                   | --                   | --                   | --                   |
| Pink        | Hake Sectors          | Catcher Processor                                | 22                   | 0.0304               | 34                   | 0.0450               | --                   | --                   | 23                   | 0.0206               | --                   | --                   |
| Pink        | Hake Sectors          | Non-Tribal Mothership                            | --                   | --                   | 3                    | 0.0038               | --                   | --                   | --                   | --                   | --                   | --                   |
| Pink        | Hake Sectors          | Shoreside Hake                                   | --                   | --                   | 2                    | 0.0045               | --                   | --                   | --                   | --                   | --                   | --                   |
| Pink        | Hake Sectors          | Shoreside - EFP                                  | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Pink        | Hake Sectors          | Shoreside - Tribal                               | --                   | --                   | 5                    | 18.0000              | --                   | --                   | --                   | --                   | --                   | --                   |
| Pink        | Hake Sectors          | Tribal Mothership                                | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Sockeye     | Non-Hake Catch Shares | CS - Bottom and Midwater Trawl and LE CA Halibut | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Sockeye     | Hake Sectors          | Catcher Processor                                | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Sockeye     | Hake Sectors          | Non-Tribal Mothership                            | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | 6                    | 0.0116               |
| Sockeye     | Hake Sectors          | Shoreside Hake                                   | --                   | --                   | --                   | --                   | 1                    | 0.0014               | --                   | --                   | --                   | --                   |
| Sockeye     | Hake Sectors          | Shoreside - Tribal                               | --                   | --                   | 1                    | 3.0000               | --                   | --                   | --                   | --                   | --                   | --                   |
| Unspecified | Non-Catch Shares      | LE CA Halibut                                    | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Unspecified | Non-Catch Shares      | LE Sablefish - Hook and Line                     | --                   | --                   | --                   | --                   | 4                    | 0.0199               | --                   | --                   | --                   | --                   |
| Unspecified | Non-Catch Shares      | Limited Entry Trawl                              | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |

Table 25c (continued). Summary of salmon bycatch count and weight by species and sector, 2012–16.

| Species     | Sector Group          | Sector                                      | 2012:<br>Individuals | 2012:<br>Weight (mt) | 2013:<br>Individuals | 2013:<br>Weight (mt) | 2014:<br>Individuals | 2014:<br>Weight (mt) | 2015:<br>Individuals | 2015:<br>Weight (mt) | 2016:<br>Individuals | 2016:<br>Weight (mt) |
|-------------|-----------------------|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Unspecified | Non-Catch Shares      | Nearshore                                   | --                   | --                   | --                   | --                   | 9                    | 0.0623               | 18                   | 0.0903               | --                   | --                   |
| Unspecified | Non-Catch Shares      | OA CA Halibut                               | --                   | --                   | --                   | --                   | --                   | --                   | 9                    | 0.0136               | --                   | --                   |
| Unspecified | Non-Hake Catch Shares | CS - Bottom Trawl and LE California Halibut | 2                    | 0.0024               | --                   | --                   | 1                    | 0.0014               | 4                    | 0.0055               | --                   | --                   |
| Unspecified | Hake Sectors          | Catcher Processor                           | --                   | --                   | 1                    | 0.0002               | 2                    | 0.0005               | --                   | --                   | --                   | --                   |
| Unspecified | Hake Sectors          | Non-Tribal Mothership                       | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Unspecified | Hake Sectors          | Shoreside Hake                              | 2                    | 0.0091               | --                   | --                   | 33                   | 0.0898               | --                   | --                   | --                   | --                   |
| Unspecified | Hake Sectors          | Shoreside - EFP                             | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Unspecified | Hake Sectors          | Shoreside - Tribal                          | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |
| Unspecified | Hake Sectors          | Tribal Mothership                           | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   | --                   |

Table 26. Summary of biological data for at-sea salmon catch, separated by sector, collected by WCGOP observers from 2002–16. All data was not available for every specimen. Due to 100% coverage in Catch Shares sectors, more biological data are typically collected.

| Species | Sector              | Year | Individuals Biologically Sampled | Female Individuals | Male Individuals | Unsex Individuals | Minimum Length (cm) | Mean Length (cm) | Maximum Length (cm) | Minimum Weight (kg) | Mean Weight (kg) | Maximum Weight (kg) | Individuals with    | Individuals with    | Genetic Samples Taken |
|---------|---------------------|------|----------------------------------|--------------------|------------------|-------------------|---------------------|------------------|---------------------|---------------------|------------------|---------------------|---------------------|---------------------|-----------------------|
|         |                     |      |                                  |                    |                  |                   |                     |                  |                     |                     |                  |                     | Adipose Fin Present | Adipose Fin Clipped |                       |
| Chinook | Limited Entry Trawl | 2002 | 1                                | 1                  | 0                | 0                 | 57                  | 57               | 57                  | 2.27                | 2.27             | 2.27                | 0                   | 0                   | 0                     |
| Chinook | Limited Entry Trawl | 2003 | 8                                | 4                  | 4                | 0                 | 41                  | 48               | 54                  | 0.86                | 1.52             | 2.26                | 0                   | 0                   | 0                     |
| Chinook | Limited Entry Trawl | 2004 | 253                              | 127                | 113              | 2                 | 18                  | 54               | 83                  | 0.69                | 2.38             | 7.85                | 0                   | 0                   | 0                     |
| Chinook | Limited Entry Trawl | 2005 | 119                              | 54                 | 45               | 7                 | 25                  | 51               | 70                  | 0.49                | 2.25             | 5.53                | 0                   | 0                   | 0                     |
| Chinook | Limited Entry Trawl | 2006 | 8                                | 3                  | 5                | 0                 | 41                  | 54               | 80                  | 1.04                | 1.93             | 4.59                | 0                   | 1                   | 0                     |
| Chinook | Limited Entry Trawl | 2007 | 29                               | 14                 | 15               | 0                 | 38                  | 52               | 67                  | 0.75                | 2.08             | 4.33                | 24                  | 5                   | 0                     |
| Chinook | Limited Entry Trawl | 2008 | 54                               | 26                 | 27               | 0                 | 36                  | 53               | 69                  | 0.59                | 2.10             | 4.82                | 49                  | 4                   | 37                    |
| Chinook | Limited Entry Trawl | 2009 | 74                               | 32                 | 39               | 1                 | 28                  | 45               | 77                  | 0.32                | 1.82             | 6.63                | 35                  | 22                  | 50                    |
| Chinook | Limited Entry Trawl | 2010 | 4                                | 0                  | 2                | 0                 | 47                  | 57               | 64                  | 1.61                | 2.54             | 3.21                | 2                   | 1                   | 4                     |
| Chinook | CS - Bottom Trawl   | 2011 | 164                              | 80                 | 79               | 1                 | 40                  | 51               | 83                  | 0.77                | 1.86             | 9.34                | 117                 | 45                  | 124                   |
| Chinook | CS - Bottom Trawl   | 2012 | 293                              | 160                | 129              | 0                 | 36                  | 49               | 77                  | 0.67                | 1.77             | 7.16                | 258                 | 34                  | 84                    |
| Chinook | CS - Bottom Trawl   | 2013 | 160                              | 59                 | 73               | 0                 | 32                  | 51               | 84                  | 0.52                | 1.97             | 9.90                | 105                 | 51                  | 128                   |
| Chinook | CS - Bottom Trawl   | 2014 | 550                              | 288                | 224              | 6                 | 31                  | 52               | 85                  | 0.47                | 2.35             | 10.27               | 339                 | 209                 | 388                   |
| Chinook | CS - Bottom Trawl   | 2015 | 601                              | 316                | 265              | 16                | 36                  | 54               | 89                  | 0.64                | 2.25             | 10.03               | 491                 | 109                 | 570                   |
| Chinook | CS - Bottom Trawl   | 2016 | 172                              | 102                | 69               | 0                 | 34                  | 54               | 84                  | 0.49                | 2.27             | 9.48                | 139                 | 32                  | 155                   |
| Chinook | Midwater Rockfish   | 2012 | 4                                | 3                  | 1                | 0                 | 45                  | 55               | 60                  | 1.23                | 2.41             | 2.99                | 3                   | 1                   | 1                     |
| Chinook | Midwater Rockfish   | 2013 | 10                               | 4                  | 2                | 0                 | 31                  | 58               | 79                  | 0.44                | 3.59             | 7.56                | 3                   | 7                   | 6                     |
| Chinook | Midwater Rockfish   | 2015 | 30                               | 19                 | 11               | 0                 | 39                  | 67               | 93                  | 0.77                | 5.06             | 12.10               | 12                  | 16                  | 30                    |
| Chinook | Midwater Hake       | 2011 | 11                               | 6                  | 3                | 2                 | 42                  | 65               | 78                  | 1.11                | 4.80             | 8.74                | 9                   | 2                   | 11                    |
| Chinook | Midwater Hake       | 2012 | 8                                | 2                  | 6                | 0                 | 49                  | 61               | 77                  | 1.63                | 3.07             | 5.63                | 6                   | 2                   | 6                     |
| Chinook | Midwater Hake       | 2013 | 23                               | 8                  | 3                | 0                 | 42                  | 61               | 74                  | 1.06                | 3.62             | 6.45                | 16                  | 7                   | 11                    |
| Chinook | Midwater Hake       | 2014 | 19                               | 11                 | 8                | 0                 | 41                  | 50               | 70                  | 1.68                | 2.81             | 4.94                | 16                  | 3                   | 5                     |
| Chinook | Midwater Hake       | 2015 | 1                                | 1                  | 0                | 0                 | 79                  | 79               | 79                  | 7.83                | 7.83             | 7.83                | 1                   | 0                   | 1                     |
| Chinook | LE CA Halibut       | 2004 | 79                               | 37                 | 42               | 0                 | 27                  | 48               | 84                  | 0.40                | 1.93             | 9.68                | 0                   | 0                   | 0                     |
| Chinook | LE CA Halibut       | 2005 | 41                               | 18                 | 23               | 0                 | 26                  | 48               | 71                  | 0.30                | 2.04             | 5.24                | 0                   | 0                   | 0                     |
| Chinook | LE CA Halibut       | 2006 | 14                               | 1                  | 7                | 0                 | 32                  | 48               | 67                  | 0.54                | 2.00             | 4.45                | 1                   | 0                   | 0                     |
| Chinook | LE CA Halibut       | 2007 | 12                               | 0                  | 11               | 0                 | 33                  | 48               | 68                  | 0.69                | 1.99             | 4.99                | 9                   | 3                   | 0                     |
| Chinook | LE CA Halibut       | 2008 | 21                               | 14                 | 7                | 0                 | 36                  | 54               | 69                  | 0.54                | 2.42             | 5.70                | 10                  | 9                   | 5                     |
| Chinook | LE CA Halibut       | 2010 | 2                                | 0                  | 2                | 0                 | 27                  | 37               | 46                  | 0.35                | 0.35             | 0.35                | 2                   | 0                   | 1                     |

Table 26 (continued). Summary of biological data for at-sea salmon catch, separated by sector, collected by WCGOP observers from 2002–16.

| Species | Sector                       | Year | Individuals          |                    |                  |                   | Minimum Length (cm) | Mean Length (cm) | Maximum Length (cm) | Minimum Weight (kg) | Mean Weight (kg) | Maximum Weight (kg) | Individuals with    | Individuals with    | Genetic Samples Taken |
|---------|------------------------------|------|----------------------|--------------------|------------------|-------------------|---------------------|------------------|---------------------|---------------------|------------------|---------------------|---------------------|---------------------|-----------------------|
|         |                              |      | Biologically Sampled | Female Individuals | Male Individuals | Unsex Individuals |                     |                  |                     |                     |                  |                     | Adipose Fin Present | Adipose Fin Clipped |                       |
| Chinook | LE CA Halibut                | 2011 | 2                    | 2                  | 0                | 0                 | 53                  | 60               | 66                  | 2.99                | 3.95             | 4.91                | 1                   | 1                   | 1                     |
| Chinook | LE CA Halibut                | 2013 | 1                    | 1                  | 0                | 0                 | 63                  | 63               | 63                  | 2.67                | 2.67             | 2.67                | 1                   | 0                   | 1                     |
| Chinook | OA CA Halibut                | 2011 | 6                    | 2                  | 3                | 0                 | 31                  | 35               | 38                  | 0.25                | 0.49             | 0.81                | 5                   | 1                   | 1                     |
| Chinook | OA CA Halibut                | 2013 | 6                    | 1                  | 4                | 1                 | 28                  | 31               | 34                  | 0.30                | 0.48             | 0.68                | 3                   | 3                   | 2                     |
| Chinook | OA CA Halibut                | 2014 | 1                    | 0                  | 0                | 0                 | 23                  | 23               | 23                  | 0.20                | 0.20             | 0.20                | 1                   | 0                   | 0                     |
| Chinook | OA CA Halibut                | 2015 | 42                   | 15                 | 27               | 0                 | 33                  | 51               | 78                  | 0.57                | 2.45             | 7.16                | 26                  | 16                  | 37                    |
| Chinook | OA CA Halibut                | 2016 | 57                   | 8                  | 49               | 0                 | 32                  | 55               | 73                  | 1.26                | 3.10             | 6.32                | 34                  | 23                  | 57                    |
| Chinook | Nearshore                    | 2004 | 2                    | 0                  | 0                | 0                 | 55                  | 57               | 59                  | 1.98                | 2.04             | 2.10                | 0                   | 0                   | 0                     |
| Chinook | Nearshore                    | 2006 | 1                    | 0                  | 0                | 0                 | 46                  | 46               | 46                  | 1.23                | 1.23             | 1.23                | 0                   | 0                   | 0                     |
| Chinook | Nearshore                    | 2011 | 1                    | 0                  | 0                | 0                 | 74                  | 74               | 74                  | 6.67                | 6.67             | 6.67                | 0                   | 0                   | 0                     |
| Chinook | Nearshore                    | 2012 | 3                    | 0                  | 0                | 0                 | 57                  | 69               | 79                  | 2.47                | 5.52             | 8.15                | 0                   | 0                   | 0                     |
| Chinook | Nearshore                    | 2013 | 1                    | 0                  | 0                | 0                 | 33                  | 33               | 33                  | 0.49                | 0.49             | 0.49                | 0                   | 0                   | 0                     |
| Chinook | Nearshore                    | 2015 | 1                    | 0                  | 1                | 0                 | 66                  | 66               | 66                  | 3.33                | 3.33             | 3.33                | 1                   | 0                   | 0                     |
| Chinook | Pink Shrimp                  | 2012 | 2                    | 1                  | 1                | 0                 | 30                  | 35               | 40                  | 0.40                | 0.61             | 0.81                | 2                   | 0                   | 2                     |
| Chinook | Pink Shrimp                  | 2016 | 4                    | 0                  | 0                | 4                 | 13                  | 15               | 17                  | 0.05                | 0.06             | 0.07                | 4                   | 0                   | 4                     |
| Chum    | Limited Entry Trawl          | 2003 | 1                    | 0                  | 0                | 0                 | 61                  | 61               | 61                  | 2.83                | 2.83             | 2.83                | 0                   | 0                   | 0                     |
| Chum    | Limited Entry Trawl          | 2004 | 1                    | 0                  | 1                | 0                 | 57                  | 57               | 57                  | 2.57                | 2.57             | 2.57                | 0                   | 0                   | 0                     |
| Chum    | Midwater Rockfish            | 2013 | 1                    | 1                  | 0                | 0                 | 69                  | 69               | 69                  | 4.40                | 4.40             | 4.40                | 1                   | 0                   | 1                     |
| Coho    | Limited Entry Trawl          | 2004 | 5                    | 2                  | 3                | 0                 | 51                  | 61               | 72                  | 1.48                | 3.24             | 5.80                | 0                   | 0                   | 0                     |
| Coho    | Limited Entry Trawl          | 2005 | 1                    | 1                  | 0                | 0                 | 45                  | 45               | 45                  | 1.31                | 1.31             | 1.31                | 0                   | 0                   | 0                     |
| Coho    | Limited Entry Trawl          | 2007 | 2                    | 0                  | 1                | 0                 | 47                  | 48               | 48                  | 1.23                | 1.31             | 1.38                | 1                   | 1                   | 0                     |
| Coho    | Limited Entry Trawl          | 2010 | 2                    | 0                  | 1                | 0                 | 43                  | 51               | 58                  | 0.89                | 1.86             | 2.84                | 2                   | 0                   | 1                     |
| Coho    | CS - Bottom Trawl            | 2011 | 18                   | 8                  | 10               | 0                 | 49                  | 59               | 65                  | 1.01                | 1.80             | 4.20                | 16                  | 1                   | 12                    |
| Coho    | CS - Bottom Trawl            | 2012 | 26                   | 17                 | 8                | 0                 | 41                  | 51               | 71                  | 1.04                | 1.85             | 4.30                | 18                  | 7                   | 17                    |
| Coho    | CS - Bottom Trawl            | 2013 | 18                   | 10                 | 7                | 0                 | 37                  | 52               | 65                  | 1.06                | 2.27             | 3.90                | 12                  | 5                   | 12                    |
| Coho    | CS - Bottom Trawl            | 2014 | 15                   | 7                  | 8                | 0                 | 44                  | 55               | 82                  | 0.99                | 2.72             | 7.48                | 13                  | 2                   | 15                    |
| Coho    | CS - Bottom Trawl            | 2016 | 9                    | 4                  | 5                | 0                 | 31                  | 48               | 67                  | 0.42                | 1.50             | 3.04                | 5                   | 4                   | 9                     |
| Coho    | LE CA Halibut                | 2006 | 4                    | 2                  | 2                | 0                 | 65                  | 67               | 69                  | 3.90                | 4.33             | 5.04                | 3                   | 1                   | 0                     |
| Coho    | LE Sablefish - Hook and Line | 2005 | 1                    | 1                  | 0                | 0                 | 66                  | 66               | 66                  | 4.17                | 4.17             | 4.17                | 0                   | 0                   | 0                     |

Table 26 (continued). Summary of biological data for at-sea salmon catch, separated by sector, collected by WCGOP observers from 2002–16.

| Species     | Sector                       | Year | Individuals          |                    |                  | Minimum Length (cm) | Mean Length (cm) | Maximum Length (cm) | Minimum Weight (kg) | Mean Weight (kg) | Maximum Weight (kg) | Individuals with  | Individuals with    | Genetic Samples Taken |                     |
|-------------|------------------------------|------|----------------------|--------------------|------------------|---------------------|------------------|---------------------|---------------------|------------------|---------------------|-------------------|---------------------|-----------------------|---------------------|
|             |                              |      | Biologically Sampled | Female Individuals | Male Individuals |                     |                  |                     |                     |                  |                     | Unsex Individuals | Adipose Fin Present |                       | Adipose Fin Clipped |
| Coho        | LE Sablefish - Hook and Line | 2007 | 1                    | 1                  | 0                | 0                   | 63               | 63                  | 63                  | 2.77             | 2.77                | 2.77              | 0                   | 1                     | 0                   |
| Coho        | LE Sablefish - Hook and Line | 2014 | 4                    | 1                  | 3                | 0                   | 65               | 68                  | 71                  | 3.53             | 4.13                | 4.84              | 2                   | 2                     | 4                   |
| Coho        | LE Sablefish - Hook and Line | 2015 | 1                    | 0                  | 0                | 0                   | 59               | 59                  | 59                  | 3.14             | 3.14                | 3.14              | 1                   | 0                     | 0                   |
| Coho        | Nearshore                    | 2004 | 2                    | 0                  | 0                | 0                   | 53               | 58                  | 63                  | 3.46             | 4.20                | 4.94              | 0                   | 0                     | 0                   |
| Coho        | Nearshore                    | 2007 | 1                    | 0                  | 0                | 0                   | 38               | 38                  | 38                  | 1.11             | 1.11                | 1.11              | 1                   | 0                     | 0                   |
| Coho        | Nearshore                    | 2009 | 1                    | 0                  | 0                | 0                   | 32               | 32                  | 32                  | 0.49             | 0.49                | 0.49              | 0                   | 0                     | 0                   |
| Coho        | Nearshore                    | 2012 | 1                    | 0                  | 0                | 0                   | 71               | 71                  | 71                  | 4.94             | 4.94                | 4.94              | 0                   | 0                     | 0                   |
| Coho        | Nearshore                    | 2014 | 1                    | 0                  | 0                | 0                   | 32               | 32                  | 32                  | 1.04             | 1.04                | 1.04              | 0                   | 0                     | 0                   |
| Coho        | Nearshore                    | 2015 | 2                    | 0                  | 0                | 0                   | 31               | 50                  | 68                  | 0.64             | 2.54                | 4.45              | 1                   | 0                     | 0                   |
| Coho        | Nearshore                    | 2016 | 1                    | 0                  | 0                | 0                   | 33               | 33                  | 33                  | 0.49             | 0.49                | 0.49              | 0                   | 0                     | 0                   |
| Pink        | Limited Entry Trawl          | 2009 | 1                    | 0                  | 0                | 0                   | 41               | 41                  | 41                  | 1.02             | 1.02                | 1.02              | 1                   | 0                     | 1                   |
| Pink        | CS - Bottom Trawl            | 2012 | 2                    | 1                  | 1                | 0                   | 42               | 42                  | 42                  | 0.91             | 0.95                | 0.99              | 0                   | 0                     | 0                   |
| Pink        | CS - Bottom Trawl            | 2014 | 2                    | 1                  | 1                | 0                   | 48               | 48                  | 48                  | 1.33             | 1.41                | 1.48              | 2                   | 0                     | 2                   |
| Pink        | Midwater Hake                | 2011 | 3                    | 0                  | 0                | 0                   | 49               | 53                  | 57                  | 1.73             | 1.73                | 1.73              | 0                   | 0                     | 0                   |
| Sockeye     | CS - Bottom Trawl            | 2011 | 1                    | 0                  | 0                | 0                   | 37               | 37                  | 37                  | 0.69             | 0.69                | 0.69              | 1                   | 0                     | 1                   |
| Unspecified | Limited Entry Trawl          | 2004 | 3                    | 2                  | 1                | 0                   | 41               | 52                  | 71                  | 0.99             | 2.20                | 4.50              | 0                   | 0                     | 0                   |
| Unspecified | CS - Bottom Trawl            | 2012 | 2                    | 0                  | 0                | 0                   | 47               | 49                  | 50                  | --               | --                  | --                | 2                   | 0                     | 2                   |
| Unspecified | CS - Bottom Trawl            | 2015 | 3                    | 2                  | 1                | 0                   | 44               | 46                  | 49                  | 1.14             | 1.28                | 1.48              | 1                   | 2                     | 2                   |

Table 27. Summary of biological data for salmon discarded shoreside, collected by the Catch Monitor (CM) program 2010–16. All data were not available for every specimen, but 100% coverage of the catch typically leads to greater collection of biological data than in other fishery sectors.

| Species | Sector                 | Year | Individuals Biologically Sampled | Female Individuals | Male Individuals | Minimum Length (cm) | Mean Length (cm) | Maximum Length (cm) | Minimum Weight (kg) | Mean Weight (kg) | Maximum Weight (kg) | Individuals with    | Individuals with    | Individuals with               | Genetic Samples Taken |
|---------|------------------------|------|----------------------------------|--------------------|------------------|---------------------|------------------|---------------------|---------------------|------------------|---------------------|---------------------|---------------------|--------------------------------|-----------------------|
|         |                        |      |                                  |                    |                  |                     |                  |                     |                     |                  |                     | Adipose Fin Present | Adipose Fin Clipped | Adipose Fin Status Unspecified |                       |
| Chinook | CS - Bottom Trawl      | 2015 | 6                                | 2                  | 2                | 43                  | 45               | 47                  | 0.99                | 1.14             | 1.48                | 1                   | 3                   | 2                              | 4                     |
| Chinook | CS EM - Bottom Trawl   | 2015 | 2                                | 1                  | 1                | 68                  | 69               | 69                  | 4.45                | 4.64             | 4.84                | 2                   | 0                   | 0                              | 2                     |
| Chinook | CS EM - Bottom Trawl   | 2016 | 66                               | 27                 | 23               | 43                  | 55               | 86                  | 0.67                | 2.10             | 4.69                | 54                  | 12                  | 0                              | 64                    |
| Chinook | Midwater Hake          | 2010 | 2137                             | 1003               | 1062             | 11                  | 61               | 109                 | 0.25                | 4.03             | 22.23               | 1258                | 870                 | 9                              | 1923                  |
| Chinook | Midwater Hake          | 2011 | 2819                             | 1333               | 1445             | 12                  | 60               | 106                 | 0.12                | 3.78             | 23.21               | 1615                | 1177                | 27                             | 2411                  |
| Chinook | Midwater Hake          | 2012 | 1761                             | 922                | 825              | 34                  | 62               | 106                 | 0.77                | 3.77             | 16.30               | 1480                | 274                 | 7                              | 1337                  |
| Chinook | Midwater Hake          | 2013 | 1081                             | 445                | 515              | 36                  | 64               | 102                 | 0.49                | 4.12             | 16.84               | 904                 | 158                 | 19                             | 851                   |
| Chinook | Midwater Hake          | 2014 | 3482                             | 1677               | 1740             | 33                  | 59               | 109                 | 0.49                | 3.49             | 17.78               | 2858                | 624                 | 0                              | 2440                  |
| Chinook | Midwater Hake          | 2015 | 179                              | 100                | 78               | 34                  | 65               | 96                  | 0.40                | 4.53             | 14.82               | 137                 | 42                  | 0                              | 171                   |
| Chinook | Midwater Hake          | 2016 | 99                               | 62                 | 36               | 44                  | 72               | 96                  | 1.23                | 6.15             | 14.32               | 90                  | 9                   | 0                              | 94                    |
| Chinook | Midwater Hake EM       | 2015 | 1579                             | 781                | 739              | 38                  | 66               | 107                 | 0.74                | 4.82             | 17.78               | 1277                | 301                 | 1                              | 1083                  |
| Chinook | Midwater Hake EM       | 2016 | 625                              | 340                | 280              | 30                  | 70               | 103                 | 0.89                | 5.94             | 19.76               | 548                 | 77                  | 0                              | 568                   |
| Chinook | Midwater Rockfish      | 2010 | 3                                | 2                  | 1                | 51                  | 62               | 68                  | 1.58                | 3.49             | 4.45                | 3                   | 0                   | 0                              | 3                     |
| Chinook | Midwater Rockfish      | 2011 | 13                               | 9                  | 4                | 46                  | 56               | 78                  | 1.36                | 2.62             | 6.91                | 8                   | 5                   | 0                              | 13                    |
| Chinook | Midwater Rockfish      | 2012 | 26                               | 4                  | 4                | 41                  | 59               | 78                  | 0.99                | 3.24             | 7.90                | 7                   | 2                   | 17                             | 9                     |
| Chinook | Midwater Rockfish      | 2014 | 25                               | 11                 | 14               | 40                  | 53               | 65                  | 1.11                | 2.45             | 4.69                | 6                   | 19                  | 0                              | 25                    |
| Chinook | Midwater Rockfish      | 2015 | 107                              | 50                 | 53               | 25                  | 64               | 92                  | 0.25                | 4.43             | 11.36               | 61                  | 46                  | 0                              | 99                    |
| Chinook | Midwater Rockfish      | 2016 | 7                                | 3                  | 4                | 25                  | 47               | 75                  | 0.20                | 2.79             | 8.10                | 6                   | 1                   | 0                              | 7                     |
| Chinook | Midwater Rockfish EM   | 2015 | 256                              | 125                | 123              | 25                  | 63               | 89                  | 0.20                | 4.46             | 13.83               | 172                 | 81                  | 3                              | 157                   |
| Chinook | Midwater Rockfish EM   | 2016 | 40                               | 22                 | 18               | 41                  | 67               | 96                  | 0.94                | 5.22             | 16.05               | 26                  | 14                  | 0                              | 38                    |
| Chum    | Midwater Hake          | 2010 | 6                                | 3                  | 1                | 37                  | 58               | 73                  | 0.99                | 3.00             | 5.80                | 6                   | 0                   | 0                              | 1                     |
| Chum    | Midwater Hake          | 2011 | 2                                | 1                  | 1                | 62                  | 65               | 68                  | 2.72                | 3.33             | 3.95                | 2                   | 0                   | 0                              | 0                     |
| Chum    | Midwater Hake          | 2015 | 1                                | --                 | 1                | 81                  | 81               | 81                  | 7.16                | 7.16             | 7.16                | 1                   | 0                   | 0                              | 0                     |
| Chum    | Midwater Hake          | 2016 | 1                                | 1                  | --               | 66                  | 66               | 66                  | 3.95                | 3.95             | 3.95                | 1                   | 0                   | 0                              | 0                     |
| Chum    | Midwater Hake - EM     | 2015 | 6                                | 3                  | 3                | 62                  | 69               | 77                  | 2.96                | 4.24             | 5.93                | 6                   | 0                   | 0                              | 0                     |
| Chum    | Midwater Hake - EM     | 2016 | 20                               | 12                 | 7                | 61                  | 70               | 78                  | 2.96                | 4.44             | 6.42                | 20                  | 0                   | 0                              | 0                     |
| Chum    | Midwater Rockfish - EM | 2015 | 5                                | 4                  | --               | 62                  | 65               | 70                  | 3.33                | 3.63             | 4.45                | 5                   | 0                   | 0                              | 0                     |
| Coho    | Midwater Hake          | 2010 | 10                               | 1                  | 5                | 57                  | 66               | 74                  | 3.21                | 4.42             | 5.68                | 4                   | 6                   | 0                              | 2                     |

Table 27 (continued). Summary of biological data for salmon discarded shoreside, collected by the Catch Monitor (CM) program 2010–16.

| Species      | Sector                 | Year | Individuals Biologically Sampled | Female Individuals | Male Individuals | Minimum Length (cm) | Mean Length (cm) | Maximum Length (cm) | Minimum Weight (kg) | Mean Weight (kg) | Maximum Weight (kg) | Individuals with Adipose Fin Present | Individuals with Adipose Fin Clipped | Individuals with Adipose Fin Status Unspecified | Genetic Samples Taken |
|--------------|------------------------|------|----------------------------------|--------------------|------------------|---------------------|------------------|---------------------|---------------------|------------------|---------------------|--------------------------------------|--------------------------------------|---|-----------------------|
| Coho         | Midwater Hake          | 2011 | 133                              | 73                 | 54               | 35                  | 61               | 91                  | 0.64                | 3.24             | 10.62               | 80                                   | 52                                   | 1   | 3                     |
| Coho         | Midwater Hake          | 2012 | 15                               | 6                  | 7                | 49                  | 60               | 74                  | 1.53                | 3.05             | 5.93                | 11                                   | 4                                    | 0   | 0                     |
| Coho         | Midwater Hake          | 2013 | 33                               | 20                 | 13               | 55                  | 67               | 86                  | 1.98                | 4.54             | 11.21               | 27                                   | 6                                    | 0   | 0                     |
| Coho         | Midwater Hake          | 2014 | 162                              | 73                 | 88               | 39                  | 58               | 80                  | 0.93                | 2.82             | 6.42                | 104                                  | 58                                   | 0   | 0                     |
| Coho         | Midwater Hake          | 2015 | 1                                | --                 | 1                | 55                  | 55               | 55                  | 2.59                | 2.59             | 2.59                | 0                                    | 1                                    | 0   | 0                     |
| Coho         | Midwater Hake          | 2016 | 1                                | 1                  | --               | 73                  | 73               | 73                  | 4.94                | 4.94             | 4.94                | 0                                    | 1                                    | 0   | 0                     |
| Coho         | Midwater Hake - EM     | 2015 | 8                                | 6                  | 2                | 46                  | 57               | 72                  | 1.23                | 2.56             | 5.43                | 7                                    | 1                                    | 0   | 0                     |
| Coho         | Midwater Hake - EM     | 2016 | 3                                | 1                  | 1                | 52                  | 60               | 67                  | 1.93                | 3.15             | 4.20                | 2                                    | 1                                    | 0   | 0                     |
| Coho         | Midwater Rockfish      | 2014 | 4                                | --                 | 4                | 50                  | 55               | 58                  | 1.58                | 2.21             | 2.57                | 1                                    | 3                                    | 0   | 0                     |
| Coho         | Midwater Rockfish      | 2015 | 3                                | 2                  | 1                | 52                  | 61               | 66                  | 1.73                | 2.96             | 3.70                | 0                                    | 3                                    | 0   | 0                     |
| Coho         | Midwater Rockfish - EM | 2015 | 5                                | 2                  | 3                | 59                  | 69               | 82                  | 2.22                | 4.49             | 6.91                | 5                                    | 0                                    | 0   | 0                     |
| Unidentified | Midwater Hake          | 2011 | 30                               | 11                 | 19               | 50                  | 60               | 89                  | 1.73                | 3.61             | 11.36               | 29                                   | 0                                    | 1   | 28                    |



Table 28. Summary of biological data for salmon species, separated by sector, collected by A-SHOP observers from 1980–2016. All data were not available for every specimen. 100% coverage of the catch typically leads to greater collection of biological data than in other fishery sectors.

| Species | Sector    | Year | Individuals Biologically Sampled | Female Individuals | Male Individuals | Unsex Individuals | Mean Length (cm) | Maximum Length (cm) | Minimum Weight (kg) | Mean Weight (kg) | Maximum Weight (kg) | Individuals with Adipose Fin Present | Individuals with Adipose Fin Clipped | Individuals with Adipose Fin Status Unspecified | Genetic Samples Taken |
|---------|-----------|------|----------------------------------|--------------------|------------------|-------------------|------------------|---------------------|---------------------|------------------|---------------------|--------------------------------------|--------------------------------------|---|-----------------------|
| Chinook | Historic  | 1980 | 2379                             | 1277               | 965              | 30                | 55               | 109                 | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chinook | Historic  | 1981 | 2155                             | 1098               | 981              | 28                | 54               | 106                 | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chinook | Historic  | 1982 | 5328                             | 2827               | 2200             | 15                | 58               | 112                 | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chinook | Historic  | 1983 | 1861                             | 894                | 870              | 26                | 54               | 109                 | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chinook | Historic  | 1984 | 2162                             | 999                | 1154             | 30                | 50               | 100                 | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chinook | Historic  | 1985 | 1183                             | 563                | 572              | 22                | 60               | 105                 | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chinook | Historic  | 1986 | 21892                            | 10545              | 11124            | 20                | 49               | 116                 | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chinook | Historic  | 1987 | 8273                             | 4430               | 3737             | 20                | 57               | 114                 | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chinook | Historic  | 1988 | 7676                             | 3799               | 3765             | 22                | 54               | 105                 | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chinook | Historic  | 1989 | 5179                             | 2687               | 2451             | 25                | 56               | 111                 | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chinook | Historic  | 1990 | 3146                             | 1526               | 1547             | 24                | 54               | 105                 | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea CP | 1991 | 770                              | 468                | 301              | 19                | 59               | 98                  | 0.45                | 3.40             | 15.75               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea CP | 1992 | 302                              | 146                | 128              | 43                | 68               | 101                 | 1.00                | 5.09             | 15.50               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea CP | 1993 | 569                              | 301                | 258              | 32                | 55               | 105                 | 0.65                | 3.10             | 13.00               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea CP | 1994 | 256                              | 132                | 123              | 36                | 61               | 97                  | 0.55                | 3.50             | 12.78               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea CP | 1995 | 561                              | 284                | 277              | 35                | 62               | 102                 | 0.70                | 3.93             | 10.20               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea CP | 1996 | 113                              | 60                 | 53               | 36                | 78               | 110                 | 1.80                | 7.71             | 15.00               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea CP | 1997 | 107                              | 52                 | 51               | 33                | 65               | 103                 | 0.90                | 5.35             | 16.60               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea CP | 1998 | 81                               | 44                 | 37               | 32                | 73               | 123                 | 0.90                | 6.50             | 14.20               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea CP | 1999 | 691                              | 407                | 280              | 32                | 61               | 101                 | 0.62                | 5.47             | 13.51               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea CP | 2000 | 599                              | 304                | 295              | 17                | 53               | 106                 | 0.24                | 4.06             | 15.69               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea CP | 2001 | 371                              | 192                | 179              | 36                | 59               | 102                 | 0.65                | 4.53             | 15.46               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea CP | 2002 | 293                              | 174                | 119              | 30                | 60               | 122                 | 0.59                | 3.71             | 15.70               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea CP | 2003 | 243                              | 128                | 115              | 35                | 60               | 101                 | 1.63                | 4.46             | 13.43               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea CP | 2004 | 168                              | 97                 | 71               | 40                | 64               | 119                 | 1.00                | 4.79             | 15.69               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea CP | 2005 | 771                              | 381                | 359              | 39                | 61               | 99                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea CP | 2006 | 54                               | 26                 | 23               | 50                | 70               | 98                  | 1.64                | 4.11             | 8.92                | 3                                    | 6                                    | 0   | --                    |
| Chinook | At-Sea CP | 2007 | 393                              | 191                | 185              | 34                | 59               | 99                  | 0.52                | 2.31             | 6.83                | 13                                   | 82                                   | 2   | --                    |
| Chinook | At-Sea CP | 2008 | 232                              | 137                | 95               | 36                | 65               | 99                  | 1.63                | 4.41             | 10.13               | 3                                    | 12                                   | 0   | 145                   |

Table 28 (continued). Summary of biological data for salmon species, separated by sector, collected by A-SHOP observers from 1980–2016.

| Species | Sector    | Year | Individuals Biologically Sampled | Female Individuals | Male Individuals | Unsex Individuals | Mean Length (cm) | Maximum Length (cm) | Minimum Weight (kg) | Mean Weight (kg) | Maximum Weight (kg) | Individuals with Adipose Fin Present | Individuals with Adipose Fin Clipped | Individuals with Adipose Fin Status Unspecified | Genetic Samples Taken |
|---------|-----------|------|----------------------------------|--------------------|------------------|-------------------|------------------|---------------------|---------------------|------------------|---------------------|--------------------------------------|--------------------------------------|---|-----------------------|
| Chinook | At-Sea CP | 2009 | 12                               | 8                  | 4                | 59                | 78               | 104                 | 2.23                | 6.35             | 16.86               | 10                                   | 2                                    | 1   | 11                    |
| Chinook | At-Sea CP | 2010 | 114                              | 66                 | 48               | 28                | 68               | 106                 | 0.26                | 5.01             | 14.62               | 86                                   | 29                                   | 0   | 113                   |
| Chinook | At-Sea CP | 2011 | 1239                             | 676                | 562              | 32                | 58               | 97                  | 0.44                | 2.88             | 13.69               | 918                                  | 242                                  | 1   | 1103                  |
| Chinook | At-Sea CP | 2012 | 984                              | 543                | 440              | 33                | 60               | 114                 | 0.47                | 3.20             | 14.43               | 791                                  | 150                                  | 1   | 922                   |
| Chinook | At-Sea CP | 2013 | 787                              | 421                | 365              | 34                | 59               | 90                  | 0.56                | 2.96             | 10.44               | 726                                  | 51                                   | 9   | 784                   |
| Chinook | At-Sea CP | 2014 | 1471                             | 775                | 692              | 24                | 57               | 99                  | 0.40                | 2.64             | 12.95               | 1060                                 | 153                                  | 0   | 1220                  |
| Chinook | At-Sea CP | 2015 | 632                              | 355                | 277              | 34                | 58               | 97                  | 0.48                | 2.86             | 13.34               | 568                                  | 64                                   | 0   | 632                   |
| Chinook | At-Sea CP | 2016 | 1258                             | 754                | 503              | 37                | 61               | 96                  | 0.59                | 3.44             | 13.23               | 1139                                 | 115                                  | 0   | 1251                  |
| Chinook | At-Sea MS | 1991 | 731                              | 387                | 311              | 33                | 58               | 91                  | 0.50                | 3.87             | 10.90               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea MS | 1992 | 139                              | 53                 | 70               | 35                | 63               | 93                  | 0.50                | 3.75             | 9.80                | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea MS | 1993 | 556                              | 280                | 276              | 31                | 48               | 86                  | 0.80                | 2.61             | 10.40               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea MS | 1994 | 724                              | 353                | 364              | 29                | 51               | 102                 | 0.40                | 2.93             | 14.90               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea MS | 1995 | 1144                             | 574                | 568              | 24                | 56               | 95                  | 0.60                | 3.83             | 12.00               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea MS | 1996 | 269                              | 109                | 121              | 32                | 61               | 105                 | 0.60                | 6.80             | 14.20               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea MS | 1997 | 88                               | 43                 | 43               | 36                | 65               | 98                  | 0.80                | 5.55             | 15.00               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea MS | 1998 | 97                               | 54                 | 43               | 38                | 71               | 98                  | 0.80                | 4.99             | 11.30               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea MS | 1999 | 115                              | 68                 | 46               | 32                | 64               | 104                 | 0.76                | 4.52             | 12.40               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea MS | 2000 | 821                              | 407                | 414              | 16                | 53               | 104                 | 0.43                | 3.44             | 15.95               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea MS | 2001 | 302                              | 137                | 165              | 34                | 54               | 95                  | 0.47                | 2.47             | 10.99               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea MS | 2002 | 335                              | 201                | 134              | 40                | 60               | 98                  | 1.67                | 4.35             | 12.18               | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea MS | 2003 | 687                              | 359                | 328              | 37                | 58               | 98                  | 0.70                | 3.04             | 6.10                | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea MS | 2004 | 155                              | 85                 | 70               | 39                | 59               | 94                  | 1.12                | 3.25             | 8.78                | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea MS | 2005 | 994                              | 540                | 444              | 37                | 60               | 102                 | 2.46                | 4.87             | 9.56                | --                                   | --                                   | --  | --                    |
| Chinook | At-Sea MS | 2006 | 388                              | 164                | 208              | 17                | 62               | 106                 | 0.05                | 2.70             | 10.23               | 9                                    | 73                                   | 3   | --                    |
| Chinook | At-Sea MS | 2007 | 260                              | 109                | 150              | 35                | 56               | 99                  | 0.07                | 2.21             | 12.78               | 7                                    | 59                                   | 21  | --                    |
| Chinook | At-Sea MS | 2008 | 96                               | 44                 | 51               | 40                | 65               | 98                  | 1.91                | 4.19             | 9.01                | 5                                    | 6                                    | 0   | 81                    |
| Chinook | At-Sea MS | 2009 | 145                              | 65                 | 80               | 33                | 60               | 97                  | 0.44                | 3.69             | 12.73               | 77                                   | 63                                   | 7   | 143                   |
| Chinook | At-Sea MS | 2010 | 217                              | 112                | 105              | 30                | 63               | 113                 | 0.38                | 3.85             | 15.85               | 186                                  | 30                                   | 1   | 212                   |
| Chinook | At-Sea MS | 2011 | 552                              | 304                | 247              | 32                | 61               | 98                  | 0.59                | 3.55             | 12.65               | 436                                  | 95                                   | 1   | 531                   |
| Chinook | At-Sea MS | 2012 | 1106                             | 664                | 441              | 32                | 60               | 95                  | 0.58                | 3.00             | 12.70               | 942                                  | 117                                  | 0   | 1093                  |

Table 28 (continued). Summary of biological data for salmon species, separated by sector, collected by A-SHOP observers from 1980–2016.

| Species | Sector    | Year | Individuals Biologically Sampled | Female Individuals | Male Individuals | Unsex Individuals | Mean Length (cm) | Maximum Length (cm) | Minimum Weight (kg) | Mean Weight (kg) | Maximum Weight (kg) | Individuals with Adipose Fin Present | Individuals with Adipose Fin Clipped | Individuals with Adipose Fin Status Unspecified | Genetic Samples Taken |
|---------|-----------|------|----------------------------------|--------------------|------------------|-------------------|------------------|---------------------|---------------------|------------------|---------------------|--------------------------------------|--------------------------------------|---|-----------------------|
| Chinook | At-Sea MS | 2013 | 764                              | 414                | 349              | 36                | 60               | 98                  | 0.50                | 3.16             | 14.17               | 664                                  | 74                                   | 0   | 758                   |
| Chinook | At-Sea MS | 2014 | 1323                             | 681                | 642              | 32                | 54               | 93                  | 0.42                | 2.31             | 12.57               | 978                                  | 157                                  | 7   | 1178                  |
| Chinook | At-Sea MS | 2015 | 119                              | 69                 | 49               | 36                | 59               | 86                  | 0.52                | 3.22             | 9.97                | 82                                   | 37                                   | 0   | 119                   |
| Chinook | At-Sea MS | 2016 | 185                              | 95                 | 90               | 41                | 64               | 103                 | 0.89                | 4.36             | 18.30               | 163                                  | 21                                   | 1   | 185                   |
| Chinook | Tribal MS | 1996 | 79                               | 35                 | 44               | 25                | 53               | 84                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chinook | Tribal MS | 1997 | 846                              | 433                | 411              | 25                | 56               | 98                  | 0.60                | 3.04             | 9.60                | --                                   | --                                   | --  | --                    |
| Chinook | Tribal MS | 1998 | 828                              | 426                | 401              | 28                | 52               | 106                 | 0.50                | 3.22             | 16.20               | --                                   | --                                   | --  | --                    |
| Chinook | Tribal MS | 1999 | 1264                             | 727                | 537              | 27                | 54               | 116                 | 1.00                | 3.47             | 6.40                | --                                   | --                                   | --  | --                    |
| Chinook | Tribal MS | 2000 | 279                              | 125                | 154              | 36                | 52               | 96                  | 0.68                | 2.56             | 14.61               | --                                   | --                                   | --  | --                    |
| Chinook | Tribal MS | 2001 | 376                              | 197                | 179              | 27                | 59               | 91                  | 0.37                | 2.70             | 11.69               | --                                   | --                                   | --  | --                    |
| Chinook | Tribal MS | 2002 | 314                              | 178                | 136              | 35                | 59               | 99                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chinook | Tribal MS | 2003 | 1112                             | 574                | 538              | 27                | 54               | 113                 | 1.32                | 4.17             | 8.46                | --                                   | --                                   | --  | --                    |
| Chinook | Tribal MS | 2004 | 932                              | 481                | 451              | 32                | 53               | 108                 | 1.66                | 4.98             | 13.42               | --                                   | --                                   | --  | --                    |
| Chinook | Tribal MS | 2005 | 1074                             | 497                | 577              | 17                | 54               | 102                 | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chinook | Tribal MS | 2006 | 225                              | 105                | 120              | 36                | 53               | 89                  | 0.65                | 1.95             | 8.66                | 6                                    | 58                                   | 0   | --                    |
| Chinook | Tribal MS | 2007 | 206                              | 109                | 97               | 30                | 48               | 77                  | 0.33                | 1.30             | 3.50                | 2                                    | 87                                   | 0   | --                    |
| Chinook | Tribal MS | 2008 | 54                               | 30                 | 24               | 29                | 58               | 80                  | 1.53                | 2.41             | 3.50                | 4                                    | 1                                    | 0   | 45                    |
| Chinook | Tribal MS | 2009 | 256                              | 129                | 127              | 24                | 51               | 81                  | 0.15                | 1.71             | 7.43                | 141                                  | 115                                  | 0   | 249                   |
| Chinook | Tribal MS | 2010 | 354                              | 199                | 155              | 37                | 59               | 93                  | 0.64                | 2.91             | 13.88               | 234                                  | 118                                  | 3   | 351                   |
| Chinook | Tribal MS | 2011 | 206                              | 95                 | 111              | 22                | 48               | 94                  | 0.12                | 1.68             | 13.26               | 90                                   | 114                                  | 1   | 203                   |
| Chum    | Historic  | 1980 | 1                                | --                 | 1                | 66                | 66               | 66                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | Historic  | 1981 | 8                                | 3                  | 5                | 47                | 66               | 77                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | Historic  | 1982 | 46                               | 25                 | 21               | 45                | 70               | 79                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | Historic  | 1983 | 17                               | 10                 | 6                | 33                | 55               | 81                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | Historic  | 1984 | 195                              | 86                 | 109              | 37                | 54               | 78                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | Historic  | 1985 | 48                               | 26                 | 22               | 21                | 62               | 85                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | Historic  | 1986 | 260                              | 99                 | 154              | 33                | 64               | 92                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | Historic  | 1987 | 17                               | 9                  | 8                | 51                | 71               | 90                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | Historic  | 1988 | 49                               | 24                 | 24               | 30                | 69               | 90                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | Historic  | 1989 | 5                                | 2                  | 3                | 40                | 50               | 58                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |

Table 28 (continued). Summary of biological data for salmon species, separated by sector, collected by A-SHOP observers from 1980–2016.

| Species | Sector    | Year | Individuals Biologically Sampled | Female Individuals | Male Individuals | Unsex Individuals | Mean Length (cm) | Maximum Length (cm) | Minimum Weight (kg) | Mean Weight (kg) | Maximum Weight (kg) | Individuals with Adipose Fin Present | Individuals with Adipose Fin Clipped | Individuals with Adipose Fin Status Unspecified | Genetic Samples Taken |
|---------|-----------|------|----------------------------------|--------------------|------------------|-------------------|------------------|---------------------|---------------------|------------------|---------------------|--------------------------------------|--------------------------------------|---|-----------------------|
| Chum    | Historic  | 1990 | 13                               | 3                  | 10               | 51                | 72               | 81                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea CP | 1991 | 3                                | 1                  | 2                | 54                | 62               | 73                  | 5.60                | 5.60             | 5.60                | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea CP | 1992 | 21                               | 11                 | 9                | 62                | 71               | 81                  | 3.30                | 5.08             | 7.80                | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea CP | 1993 | 5                                | 2                  | 3                | 36                | 44               | 65                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea CP | 1994 | 4                                | 1                  | 3                | 71                | 74               | 75                  | 4.50                | 5.13             | 5.50                | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea CP | 1995 | 11                               | 4                  | 7                | 36                | 47               | 74                  | 0.55                | 2.01             | 5.60                | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea CP | 1996 | 12                               | 2                  | 10               | 65                | 73               | 79                  | 3.40                | 5.02             | 7.20                | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea CP | 1997 | 4                                | 2                  | 2                | 40                | 52               | 70                  | 0.80                | 1.78             | 3.60                | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea CP | 1998 | 2                                | 2                  | --               | 63                | 70               | 76                  | 3.80                | 3.80             | 3.80                | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea CP | 1999 | 17                               | 9                  | 8                | 41                | 71               | 85                  | 3.34                | 4.79             | 9.11                | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea CP | 2000 | 2                                | --                 | 2                | 63                | 80               | 97                  | 3.26                | 3.26             | 3.26                | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea CP | 2001 | 20                               | 10                 | 10               | 48                | 64               | 78                  | 2.73                | 3.75             | 6.76                | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea CP | 2002 | 7                                | 1                  | 6                | 56                | 71               | 89                  | 2.29                | 5.33             | 10.81               | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea CP | 2003 | 4                                | 2                  | 1                | 60                | 65               | 69                  | 2.24                | 3.57             | 4.54                | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea CP | 2004 | 13                               | 10                 | 3                | 53                | 66               | 74                  | 1.96                | 3.57             | 4.74                | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea CP | 2005 | 5                                | 3                  | 1                | 44                | 63               | 69                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea CP | 2006 | 4                                | 2                  | 2                | 53                | 71               | 82                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea CP | 2007 | 44                               | 31                 | 11               | 39                | 66               | 79                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea CP | 2008 | 12                               | 6                  | 6                | 52                | 62               | 73                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea CP | 2010 | 2                                | 1                  | 1                | 58                | 61               | 63                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea CP | 2011 | 17                               | 10                 | 7                | 33                | 59               | 76                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea CP | 2012 | 21                               | 12                 | 9                | 63                | 70               | 79                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea CP | 2013 | 10                               | 5                  | 5                | 49                | 68               | 80                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea CP | 2015 | 3                                | --                 | 3                | 59                | 65               | 69                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea CP | 2016 | 14                               | 6                  | 8                | 61                | 71               | 84                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea MS | 1991 | 2                                | 2                  | --               | 72                | 76               | 79                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea MS | 1992 | 3                                | --                 | 3                | 70                | 73               | 76                  | 3.40                | 4.50             | 5.50                | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea MS | 1993 | 1                                | --                 | 1                | 73                | 73               | 73                  | 4.80                | 4.80             | 4.80                | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea MS | 1994 | 2                                | --                 | 2                | 79                | 81               | 82                  | 6.40                | 6.40             | 6.40                | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea MS | 1995 | 39                               | 14                 | 25               | 31                | 56               | 77                  | 2.40                | 4.05             | 6.00                | --                                   | --                                   | --  | --                    |

Table 28 (continued). Summary of biological data for salmon species, separated by sector, collected by A-SHOP observers from 1980–2016.

| Species | Sector    | Year | Individuals Biologically Sampled | Female Individuals | Male Individuals | Unsex Individuals | Mean Length (cm) | Maximum Length (cm) | Minimum Weight (kg) | Mean Weight (kg) | Maximum Weight (kg) | Individuals with Adipose Fin Present | Individuals with Adipose Fin Clipped | Individuals with Adipose Fin Status Unspecified | Genetic Samples Taken |
|---------|-----------|------|----------------------------------|--------------------|------------------|-------------------|------------------|---------------------|---------------------|------------------|---------------------|--------------------------------------|--------------------------------------|---|-----------------------|
| Chum    | At-Sea MS | 1996 | 16                               | 3                  | 13               | 65                | 72               | 80                  | 3.40                | 5.19             | 7.20                | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea MS | 1997 | 7                                | 2                  | 4                | 59                | 64               | 68                  | 2.60                | 2.93             | 3.50                | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea MS | 1999 | 7                                | 2                  | 5                | 41                | 65               | 78                  | 0.72                | 3.81             | 5.80                | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea MS | 2000 | 2                                | --                 | 2                | 63                | 66               | 69                  | 3.37                | 3.95             | 4.52                | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea MS | 2001 | 3                                | 2                  | 1                | 65                | 70               | 78                  | 5.16                | 5.16             | 5.16                | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea MS | 2002 | 4                                | 1                  | 3                | 75                | 79               | 82                  | 4.60                | 6.11             | 7.61                | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea MS | 2003 | 1                                | 1                  | --               | 69                | 69               | 69                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea MS | 2004 | 11                               | 6                  | 5                | 56                | 67               | 73                  | 2.22                | 3.61             | 4.66                | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea MS | 2005 | 5                                | 4                  | 1                | 62                | 67               | 70                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea MS | 2006 | 28                               | 14                 | 14               | 56                | 74               | 85                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea MS | 2007 | 45                               | 26                 | 18               | 47                | 65               | 82                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea MS | 2008 | 10                               | 3                  | 7                | 64                | 68               | 73                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea MS | 2009 | 4                                | 2                  | 2                | 66                | 70               | 73                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea MS | 2010 | 2                                | 1                  | 1                | 60                | 60               | 60                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea MS | 2011 | 5                                | 4                  | 1                | 67                | 69               | 72                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea MS | 2014 | 1                                | --                 | 1                | 72                | 72               | 72                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | At-Sea MS | 2016 | 6                                | --                 | 6                | 71                | 74               | 77                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | Tribal MS | 1997 | 7                                | 2                  | 5                | 46                | 68               | 82                  | 3.90                | 6.07             | 7.40                | --                                   | --                                   | --  | --                    |
| Chum    | Tribal MS | 1998 | 11                               | 8                  | 3                | 50                | 65               | 76                  | 2.90                | 3.87             | 5.10                | --                                   | --                                   | --  | --                    |
| Chum    | Tribal MS | 1999 | 7                                | 2                  | 5                | 70                | 79               | 89                  | 4.50                | 6.80             | 10.80               | --                                   | --                                   | --  | --                    |
| Chum    | Tribal MS | 2001 | 2                                | --                 | 2                | 63                | 65               | 67                  | 2.84                | 2.84             | 2.84                | --                                   | --                                   | --  | --                    |
| Chum    | Tribal MS | 2002 | 13                               | 8                  | 5                | 49                | 68               | 85                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | Tribal MS | 2003 | 3                                | 3                  | --               | 62                | 64               | 67                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | Tribal MS | 2004 | 3                                | 1                  | 2                | 61                | 69               | 77                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | Tribal MS | 2006 | 6                                | 1                  | 5                | 54                | 65               | 73                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | Tribal MS | 2009 | 3                                | 1                  | 2                | 69                | 71               | 73                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Chum    | Tribal MS | 2011 | 10                               | 5                  | 5                | 61                | 67               | 78                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Coho    | Historic  | 1980 | 38                               | 14                 | 17               | 47                | 58               | 73                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Coho    | Historic  | 1981 | 17                               | 9                  | 8                | 47                | 60               | 74                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Coho    | Historic  | 1982 | 122                              | 43                 | 45               | 33                | 59               | 105                 | --                  | --               | --                  | --                                   | --                                   | --  | --                    |

Table 28 (continued). Summary of biological data for salmon species, separated by sector, collected by A-SHOP observers from 1980–2016.

| Species | Sector    | Year | Individuals Biologically Sampled | Female Individuals | Male Individuals | Unsex Individuals | Mean Length (cm) | Maximum Length (cm) | Minimum Weight (kg) | Mean Weight (kg) | Maximum Weight (kg) | Individuals with Adipose Fin Present | Individuals with Adipose Fin Clipped | Individuals with Adipose Fin Status Unspecified | Genetic Samples Taken |
|---------|-----------|------|----------------------------------|--------------------|------------------|-------------------|------------------|---------------------|---------------------|------------------|---------------------|--------------------------------------|--------------------------------------|---|-----------------------|
| Coho    | Historic  | 1983 | 349                              | 170                | 146              | 34                | 54               | 100                 | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Coho    | Historic  | 1984 | 1067                             | 509                | 556              | 25                | 52               | 79                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Coho    | Historic  | 1985 | 252                              | 124                | 114              | 26                | 58               | 80                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Coho    | Historic  | 1986 | 1793                             | 909                | 877              | 33                | 55               | 83                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Coho    | Historic  | 1987 | 656                              | 334                | 314              | 26                | 55               | 80                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Coho    | Historic  | 1988 | 1538                             | 609                | 917              | 27                | 52               | 79                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Coho    | Historic  | 1989 | 94                               | 45                 | 49               | 43                | 54               | 67                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Coho    | Historic  | 1990 | 40                               | 21                 | 19               | 33                | 56               | 89                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea CP | 1991 | 40                               | 21                 | 18               | 30                | 53               | 84                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea CP | 1992 | 14                               | 10                 | 3                | 47                | 64               | 77                  | 1.40                | 2.74             | 4.90                | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea CP | 1993 | 3                                | 2                  | 1                | 45                | 48               | 50                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea CP | 1994 | 2                                | 1                  | 1                | 43                | 47               | 50                  | 1.70                | 1.70             | 1.70                | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea CP | 1995 | 9                                | 5                  | 4                | 50                | 61               | 76                  | 7.40                | 7.40             | 7.40                | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea CP | 1996 | 27                               | 15                 | 12               | 55                | 73               | 96                  | 2.00                | 6.99             | 9.80                | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea CP | 1997 | 14                               | 12                 | 2                | 49                | 56               | 84                  | 1.30                | 2.58             | 9.20                | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea CP | 1998 | 1                                | 1                  | --               | 74                | 74               | 74                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea CP | 1999 | 8                                | 3                  | 5                | 46                | 60               | 79                  | 1.16                | 2.88             | 6.76                | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea CP | 2000 | 33                               | 16                 | 17               | 43                | 56               | 69                  | 1.10                | 2.45             | 4.03                | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea CP | 2001 | 15                               | 7                  | 8                | 46                | 62               | 74                  | 1.45                | 3.80             | 6.30                | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea CP | 2002 | 19                               | 11                 | 8                | 47                | 58               | 81                  | 1.50                | 3.21             | 5.30                | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea CP | 2004 | 1                                | 1                  | --               | 56                | 56               | 56                  | 1.93                | 1.93             | 1.93                | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea CP | 2005 | 73                               | 36                 | 28               | 46                | 55               | 90                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea CP | 2006 | 1                                | --                 | 1                | 68                | 68               | 68                  | 2.86                | 2.86             | 2.86                | 0                                    | 1                                    | 0   | --                    |
| Coho    | At-Sea CP | 2007 | 50                               | 17                 | 24               | 42                | 54               | 70                  | 0.85                | 1.82             | 2.66                | 2                                    | 27                                   | 0   | --                    |
| Coho    | At-Sea CP | 2008 | 1                                | --                 | 1                | 62                | 62               | 62                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea CP | 2012 | 5                                | 2                  | 3                | 48                | 51               | 54                  | 1.22                | 1.84             | 3.32                | 7                                    | 1                                    | 0   | --                    |
| Coho    | At-Sea CP | 2014 | 4                                | 4                  | --               | 50                | 57               | 68                  | 1.39                | 2.16             | 3.80                | 1                                    | 3                                    | 0   | --                    |
| Coho    | At-Sea CP | 2015 | 2                                | 1                  | 1                | 52                | 56               | 59                  | 1.41                | 1.97             | 2.52                | 2                                    | 0                                    | 0   | --                    |
| Coho    | At-Sea CP | 2016 | 1                                | --                 | 1                | 67                | 67               | 67                  | 2.66                | 2.66             | 2.66                | 1                                    | 0                                    | 0   | --                    |
| Coho    | At-Sea MS | 1991 | 16                               | 9                  | 7                | 32                | 58               | 78                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |

Table 28 (continued). Summary of biological data for salmon species, separated by sector, collected by A-SHOP observers from 1980–2016.

| Species | Sector    | Year | Individuals Biologically Sampled | Female Individuals | Male Individuals | Unsex Individuals | Mean Length (cm) | Maximum Length (cm) | Minimum Weight (kg) | Mean Weight (kg) | Maximum Weight (kg) | Individuals with Adipose Fin Present | Individuals with Adipose Fin Clipped | Individuals with Adipose Fin Status Unspecified | Genetic Samples Taken |
|---------|-----------|------|----------------------------------|--------------------|------------------|-------------------|------------------|---------------------|---------------------|------------------|---------------------|--------------------------------------|--------------------------------------|---|-----------------------|
| Coho    | At-Sea MS | 1992 | 13                               | 9                  | 4                | 47                | 55               | 65                  | 1.90                | 2.20             | 2.60                | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea MS | 1993 | 1                                | --                 | 1                | 43                | 43               | 43                  | 1.00                | 1.00             | 1.00                | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea MS | 1994 | 14                               | 8                  | 6                | 32                | 50               | 72                  | 1.10                | 3.10             | 4.40                | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea MS | 1995 | 394                              | 188                | 206              | 30                | 55               | 87                  | 0.70                | 2.40             | 4.80                | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea MS | 1996 | 2                                | 1                  | 1                | 66                | 74               | 82                  | 2.50                | 2.50             | 2.50                | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea MS | 1997 | 15                               | 5                  | 9                | 35                | 52               | 70                  | 1.25                | 2.45             | 4.00                | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea MS | 1998 | 1                                | --                 | 1                | 51                | 51               | 51                  | 1.70                | 1.70             | 1.70                | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea MS | 1999 | 13                               | 4                  | 9                | 50                | 62               | 83                  | 1.70                | 3.22             | 7.70                | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea MS | 2001 | 19                               | 9                  | 10               | 36                | 54               | 65                  | 1.44                | 2.10             | 2.89                | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea MS | 2002 | 21                               | 11                 | 10               | 38                | 62               | 78                  | 1.32                | 2.65             | 5.06                | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea MS | 2003 | 1                                | 1                  | --               | 61                | 61               | 61                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea MS | 2005 | 30                               | 23                 | 6                | 41                | 55               | 71                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Coho    | At-Sea MS | 2006 | 11                               | 4                  | 7                | 44                | 56               | 62                  | 2.62                | 2.62             | 2.62                | 0                                    | 1                                    | 0   | --                    |
| Coho    | At-Sea MS | 2007 | 49                               | 23                 | 24               | 39                | 57               | 80                  | 1.07                | 1.78             | 3.08                | 2                                    | 15                                   | 3   | --                    |
| Coho    | At-Sea MS | 2008 | 5                                | 1                  | 4                | 46                | 55               | 61                  | 1.34                | 1.34             | 1.34                | 1                                    | 0                                    | 0   | --                    |
| Coho    | At-Sea MS | 2009 | 6                                | 2                  | 4                | 41                | 49               | 52                  | 0.80                | 1.41             | 1.64                | 4                                    | 2                                    | 0   | --                    |
| Coho    | At-Sea MS | 2011 | 3                                | 1                  | 2                | 46                | 50               | 53                  | 1.13                | 1.44             | 1.61                | 1                                    | 2                                    | 0   | --                    |
| Coho    | At-Sea MS | 2012 | 2                                | 1                  | 1                | 48                | 50               | 51                  | 1.34                | 1.46             | 1.57                | 2                                    | 0                                    | 0   | --                    |
| Coho    | At-Sea MS | 2013 | 3                                | 2                  | 1                | 55                | 64               | 70                  | 1.84                | 3.33             | 4.38                | 3                                    | 0                                    | 0   | --                    |
| Coho    | At-Sea MS | 2014 | 58                               | 33                 | 25               | 28                | 50               | 68                  | 0.27                | 1.71             | 4.36                | 31                                   | 27                                   | 0   | --                    |
| Coho    | Tribal MS | 1997 | 115                              | 54                 | 61               | 33                | 50               | 72                  | 0.85                | 1.45             | 2.40                | --                                   | --                                   | --  | --                    |
| Coho    | Tribal MS | 1998 | 58                               | 20                 | 38               | 33                | 57               | 85                  | 1.00                | 1.76             | 2.40                | --                                   | --                                   | --  | --                    |
| Coho    | Tribal MS | 1999 | 4                                | 1                  | 2                | 45                | 53               | 67                  | 1.05                | 2.08             | 3.80                | --                                   | --                                   | --  | --                    |
| Coho    | Tribal MS | 2000 | 3                                | 3                  | --               | 51                | 56               | 62                  | 2.11                | 2.66             | 3.20                | --                                   | --                                   | --  | --                    |
| Coho    | Tribal MS | 2001 | 4                                | 2                  | 2                | 65                | 68               | 72                  | 3.64                | 4.20             | 5.25                | --                                   | --                                   | --  | --                    |
| Coho    | Tribal MS | 2002 | 11                               | 5                  | 6                | 25                | 52               | 65                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Coho    | Tribal MS | 2003 | 55                               | 33                 | 22               | 45                | 53               | 71                  | 2.09                | 2.35             | 2.60                | --                                   | --                                   | --  | --                    |
| Coho    | Tribal MS | 2004 | 51                               | 26                 | 25               | 44                | 59               | 68                  | 2.15                | 3.00             | 3.61                | --                                   | --                                   | --  | --                    |
| Coho    | Tribal MS | 2005 | 90                               | 54                 | 36               | 43                | 54               | 70                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Coho    | Tribal MS | 2006 | 2                                | 1                  | 1                | 55                | 56               | 57                  | --                  | --               | --                  | 0                                    | 2                                    | 0   | --                    |

Table 28 (continued). Summary of biological data for salmon species, separated by sector, collected by A-SHOP observers from 1980–2016.

| Species | Sector    | Year | Individuals Biologically Sampled | Female Individuals | Male Individuals | Unsex Individuals | Mean Length (cm) | Maximum Length (cm) | Minimum Weight (kg) | Mean Weight (kg) | Maximum Weight (kg) | Individuals with Adipose Fin Present | Individuals with Adipose Fin Clipped | Individuals with Adipose Fin Status Unspecified | Genetic Samples Taken |
|---------|-----------|------|----------------------------------|--------------------|------------------|-------------------|------------------|---------------------|---------------------|------------------|---------------------|--------------------------------------|--------------------------------------|---|-----------------------|
| Coho    | Tribal MS | 2007 | 3                                | 2                  | 1                | 56                | 62               | 67                  | 3.70                | 3.80             | 3.90                | 2                                    | 0                                    | 0   | --                    |
| Coho    | Tribal MS | 2009 | 2                                | 2                  | --               | 40                | 59               | 77                  | 0.31                | 3.11             | 5.91                | 2                                    | 0                                    | 0   | --                    |
| Coho    | Tribal MS | 2010 | 2                                | 2                  | --               | 59                | 60               | 60                  | 2.18                | 2.40             | 2.62                | 3                                    | 2                                    | 2   | --                    |
| Coho    | Tribal MS | 2011 | 7                                | 6                  | 1                | 55                | 57               | 59                  | 1.66                | 2.26             | 2.58                | --                                   | --                                   | --  | --                    |
| Pink    | Historic  | 1981 | 33                               | 19                 | 13               | 52                | 58               | 65                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Pink    | Historic  | 1983 | 91                               | 38                 | 53               | 40                | 52               | 74                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Pink    | Historic  | 1985 | 29                               | 19                 | 10               | 40                | 55               | 64                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Pink    | Historic  | 1987 | 80                               | 32                 | 48               | 41                | 52               | 69                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Pink    | Historic  | 1988 | 1                                | 1                  | --               | 48                | 48               | 48                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea CP | 1991 | 8                                | 5                  | 3                | 37                | 42               | 45                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea CP | 1993 | 236                              | 99                 | 137              | 37                | 43               | 58                  | 0.70                | 1.00             | 1.40                | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea CP | 1995 | 163                              | 90                 | 73               | 31                | 39               | 45                  | 0.50                | 0.70             | 0.90                | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea CP | 1997 | 14                               | 8                  | 6                | 38                | 44               | 48                  | 0.53                | 0.89             | 1.30                | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea CP | 1999 | 61                               | 15                 | 44               | 24                | 45               | 53                  | 0.62                | 1.02             | 1.70                | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea CP | 2000 | 6                                | 1                  | 5                | 37                | 42               | 45                  | 0.93                | 0.93             | 0.93                | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea CP | 2001 | 29                               | 10                 | 19               | 41                | 50               | 68                  | 0.84                | 1.41             | 2.16                | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea CP | 2003 | 4                                | 2                  | 2                | 51                | 54               | 62                  | 1.54                | 1.94             | 2.87                | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea CP | 2005 | 20                               | 9                  | 11               | 42                | 46               | 54                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea CP | 2007 | 11                               | 4                  | 5                | 34                | 44               | 51                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea CP | 2011 | 5                                | 3                  | 2                | 46                | 49               | 52                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea CP | 2012 | 6                                | 3                  | 3                | 42                | 49               | 59                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea CP | 2013 | 13                               | 4                  | 9                | 41                | 47               | 54                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea CP | 2015 | 11                               | 4                  | 7                | 39                | 43               | 56                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea MS | 1991 | 2                                | --                 | 2                | 28                | 39               | 49                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea MS | 1993 | 70                               | 34                 | 36               | 38                | 43               | 49                  | 0.60                | 1.03             | 1.50                | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea MS | 1994 | 11                               | 6                  | 5                | 37                | 50               | 59                  | 1.30                | 3.33             | 6.80                | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea MS | 1995 | 65                               | 32                 | 33               | 33                | 39               | 46                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea MS | 1997 | 11                               | 3                  | 8                | 37                | 43               | 47                  | 0.53                | 1.03             | 2.00                | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea MS | 1999 | 4                                | 2                  | 2                | 40                | 42               | 44                  | 0.72                | 0.84             | 0.96                | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea MS | 2001 | 14                               | 3                  | 11               | 42                | 50               | 58                  | 1.22                | 1.52             | 1.70                | --                                   | --                                   | --  | --                    |



Table 28 (continued). Summary of biological data for salmon species, separated by sector, collected by A-SHOP observers from 1980–2016.

| Species | Sector    | Year | Individuals Biologically Sampled | Female Individuals | Male Individuals | Unsex Individuals | Mean Length (cm) | Maximum Length (cm) | Minimum Weight (kg) | Mean Weight (kg) | Maximum Weight (kg) | Individuals with Adipose Fin Present | Individuals with Adipose Fin Clipped | Individuals with Adipose Fin Status Unspecified | Genetic Samples Taken |
|---------|-----------|------|----------------------------------|--------------------|------------------|-------------------|------------------|---------------------|---------------------|------------------|---------------------|--------------------------------------|--------------------------------------|---|-----------------------|
| Pink    | At-Sea MS | 2003 | 1                                | 1                  | --               | 41                | 41               | 41                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea MS | 2007 | 6                                | 2                  | 2                | 46                | 48               | 49                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea MS | 2009 | 1                                | --                 | 1                | 46                | 46               | 46                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea MS | 2011 | 1                                | --                 | 1                | 46                | 46               | 46                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Pink    | At-Sea MS | 2013 | 2                                | 1                  | 1                | 44                | 46               | 48                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Pink    | Tribal MS | 1997 | 185                              | 95                 | 90               | 35                | 50               | 59                  | 1.00                | 1.31             | 1.85                | --                                   | --                                   | --  | --                    |
| Pink    | Tribal MS | 1999 | 37                               | 23                 | 14               | 40                | 50               | 56                  | 1.00                | 1.59             | 2.10                | --                                   | --                                   | --  | --                    |
| Pink    | Tribal MS | 2003 | 939                              | 501                | 438              | 36                | 52               | 62                  | 1.51                | 1.88             | 2.56                | --                                   | --                                   | --  | --                    |
| Pink    | Tribal MS | 2005 | 130                              | 64                 | 66               | 43                | 51               | 63                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Pink    | Tribal MS | 2011 | 143                              | 64                 | 79               | 43                | 52               | 60                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Sockeye | Historic  | 1981 | 1                                | --                 | 1                | 64                | 64               | 64                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Sockeye | Historic  | 1982 | 1                                | --                 | 1                | 44                | 44               | 44                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Sockeye | Historic  | 1983 | 4                                | 2                  | 1                | 36                | 50               | 57                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Sockeye | Historic  | 1984 | 34                               | 17                 | 17               | 28                | 53               | 80                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Sockeye | Historic  | 1985 | 11                               | 5                  | 6                | 58                | 67               | 81                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Sockeye | Historic  | 1986 | 12                               | 7                  | 5                | 42                | 58               | 73                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Sockeye | Historic  | 1987 | 7                                | 3                  | 4                | 60                | 66               | 82                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Sockeye | At-Sea CP | 1993 | 3                                | 1                  | 2                | 43                | 43               | 43                  | 0.83                | 0.94             | 1.00                | --                                   | --                                   | --  | --                    |
| Sockeye | At-Sea CP | 2000 | 1                                | 1                  | --               | 49                | 49               | 49                  | 1.45                | 1.45             | 1.45                | --                                   | --                                   | --  | --                    |
| Sockeye | At-Sea CP | 2010 | 1                                | --                 | 1                | 48                | 48               | 48                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Sockeye | At-Sea MS | 1995 | 3                                | 1                  | 2                | 40                | 42               | 44                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Sockeye | At-Sea MS | 2001 | 1                                | 1                  | --               | 43                | 43               | 43                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |
| Sockeye | At-Sea MS | 2016 | 3                                | --                 | 3                | 47                | 54               | 59                  | --                  | --               | --                  | --                                   | --                                   | --  | --                    |

Table 29. Observed salmon bycatch in the historic at-sea hake fishery.

| Year | Fleet Hake Landings (mt) | Chinook Individuals | Chinook Weight (mt) | Chum Individuals | Chum Weight (mt) | Coho Individuals | Coho Weight (mt) | Pink Individuals | Pink Weight (mt) | Sockeye Individuals | Sockeye Weight (mt) | Unspecified Individuals | Unspecified Weight (mt) | Steelhead Individuals | Steelhead Weight (mt) |
|------|--------------------------|---------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|---------------------|---------------------|-------------------------|-------------------------|-----------------------|-----------------------|
| 1980 | 30732                    | 3338                | 9.20                | 16               | 0.04             | 46               | 0.11             | --               | --               | --                  | --                  | 1329                    | 2686.91                 | --                    | --                    |
| 1981 | 34729                    | 4561                | 11.23               | 11               | 0.05             | 42               | 0.11             | 1                | 0.01             | 47                  | 0.13                | 150                     | 438.27                  | 11                    | 0.02                  |
| 1982 | 62338                    | 17544               | 44.30               | 4829             | 7.92             | 423              | 1.06             | 4                | 0.01             | --                  | --                  | 62                      | 224.78                  | 3                     | 0.00                  |
| 1983 | 64664                    | 4505                | 9.73                | 44               | 0.09             | 872              | 1.64             | 8                | 0.01             | 204                 | 0.39                | 3                       | 3.45                    | --                    | --                    |
| 1984 | 88612                    | 4252                | 7.63                | 455              | 0.99             | 2254             | 3.86             | 58               | 0.12             | --                  | --                  | 61                      | 131.56                  | --                    | --                    |
| 1985 | 76992                    | 1677                | 6.04                | 70               | 0.24             | 271              | 0.80             | 14               | 0.06             | 42                  | 0.09                | 6                       | 18.59                   | --                    | --                    |
| 1986 | 145278                   | 36370               | 60.10               | 593              | 1.58             | 3773             | 8.21             | 10               | 0.02             | --                  | --                  | 204                     | 407.20                  | 1                     | 0.00                  |
| 1987 | 149386                   | 12001               | 30.70               | 29               | 0.14             | 1143             | 2.57             | 10               | 0.04             | 122                 | 0.23                | 249                     | 669.91                  | --                    | --                    |
| 1988 | 149754                   | 12043               | 28.17               | 72               | 0.33             | 2470             | 4.69             | --               | --               | 1                   | 0.00                | 18                      | 60.34                   | --                    | --                    |
| 1989 | 200066                   | 8333                | 22.52               | 12               | 0.02             | 177              | 0.36             | --               | --               | --                  | --                  | 17                      | 64.26                   | --                    | --                    |
| 1990 | 169732                   | 7813                | 17.66               | 31               | 0.17             | 99               | 0.18             | --               | --               | --                  | --                  | 92                      | 207.91                  | 2                     | 0.01                  |
| 1991 | 205863                   | 5564                | 20.73               | 10               | 0.05             | 130              | 0.34             | 20               | 0.02             | --                  | --                  | 4                       | 11.24                   | --                    | --                    |
| 1992 | 154782                   | 4208                | 14.61               | 42               | 0.20             | 237              | 0.67             | --               | --               | --                  | --                  | 6                       | 33.88                   | --                    | --                    |
| 1993 | 98044                    | 4995                | 12.61               | 63               | 0.17             | 16               | 0.02             | 2785             | 2.77             | 106                 | 0.10                | 144                     | 129.69                  | --                    | --                    |
| 1994 | 179853                   | 3609                | 8.78                | 180              | 0.67             | 26               | 0.04             | 41               | 0.09             | --                  | --                  | 33                      | 100.39                  | --                    | --                    |
| 1995 | 102310                   | 8853                | 22.69               | 161              | 0.34             | 1432             | 3.08             | 1962             | 1.47             | 5                   | 0.00                | 911                     | 1170.88                 | --                    | --                    |
| 1996 | 128006                   | 1616                | 7.56                | 164              | 0.79             | 75               | 0.39             | --               | --               | --                  | --                  | 2431                    | 6443.48                 | --                    | --                    |
| 1997 | 146011                   | 4168                | 11.13               | 145              | 0.35             | 313              | 0.57             | 583              | 0.74             | --                  | --                  | 45                      | 93.29                   | --                    | --                    |
| 1998 | 145207                   | 3758                | 12.77               | 37               | 0.14             | 136              | 0.38             | 5                | 0.01             | --                  | --                  | 11                      | 38.95                   | --                    | --                    |
| 1999 | 140892                   | 9629                | 28.84               | 296              | 1.64             | 86               | 0.26             | 542              | 0.74             | --                  | --                  | 5                       | 42.03                   | --                    | --                    |
| 2000 | 120929                   | 8309                | 21.95               | 17               | 0.09             | 81               | 0.18             | 20               | 0.02             | 2                   | 0.00                | 20                      | 49.91                   | --                    | --                    |
| 2001 | 100503                   | 3379                | 9.27                | 57               | 0.19             | 106              | 0.29             | 321              | 0.54             | 3                   | 0.00                | 315                     | 910.09                  | --                    | --                    |

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