

## **ANNUAL PROGRESS REPORT**

PROJECT TITLE: Oregon Marine Recreational Fishery Studies  
CONTRACT NUMBER: F-128-R-15  
PROJECT PERIOD: October 1, 2000 through September 30, 2001

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**OREGON MARINE RECREATIONAL FISH STUDIES**  
**And NEARSHORE FISH STUDIES**  
**Contract No. F-128-R-15**  
**Annual Progress Report**  
**October 1, 2000 through September 30, 2001**

**PROJECT 1: OREGON MARINE RECREATIONAL FISH STUDIES**

This project originated in 1986 to address groundfish biological sampling needs in Oregon's marine recreational fishery. Angler effort directed towards groundfish species increased significantly since the mid-1980's as traditional opportunities for salmonid species diminished.

This situation led to the funding (jointly by Sport Fish Restoration and State General Funds) of a project designed to gather biological data for species other than salmonids sought by the marine finfish fishery. Rockfish, surfperch, and Pacific halibut were identified as species to receive first attention.

Starting in 1999, this project also began to address groundfish catch and effort sampling needs. This resulted from an evaluation of the accuracy of catch and effort estimates from the Marine Recreational Fishery Statistical Survey (MRFSS) of the National Marine Fishery Service (NMFS), the historical source of Oregon groundfish catch and effort statistics, which indicated overestimates of between two and three fold.

During FY2001 the Oregon Department of Fish and Wildlife (ODFW) continued to expand the groundfish catch and biological sampling program. We gathered biological samples from several additional marine species. In addition, black rockfish, surfperch and lingcod samples from the recreational fishery were aged.

This report describes activities and results during FY2001. Scientific names of the species discussed in this report are listed on Table 1. Funding budgeted for this project in FY2001 was completely spent.

**Task 1: Establish biological database for selected groundfish species**

Our objective is to establish a sound biological database for each of the most important groundfish species and for the aggregate recreational fishery. This database, as it grows more robust, will allow managers to assess the health of the resource and reliably evaluate the necessity of any future regulation changes. The information also will be used to form recommendations provided to the Oregon Fish and Wildlife Commission and the Pacific Fishery Management Council (PFMC) for their use when considering management issues.

Fish are randomly selected from anglers' catches and age structures (i.e., otoliths, fin rays) and biological data such as length, sex, and weight are obtained.

**Black rockfish.** Black rockfish are the most frequent groundfish species observed in the Oregon recreational fishery. We have been collecting biological data on black rockfish since 1979 from the port of Garibaldi on Oregon's north coast. Similar work started in 1992 in the ports of Newport and Brookings with sampling in Charleston starting in 1995. Starting in 1999, this work was expanded to the ports of Pacific City, Depoe Bay, Bandon, Port Orford, and Gold Beach.

During the current reporting period, we aged the black rockfish otoliths collected during 2000 (4,832) from the Oregon recreational fishery. The age distribution of the fish is detailed by port and sex in Table 2. The length-distribution of these same fish is detailed in Table 3. The number of fish in Table 3 exceeds those in Table 2, as one otolith was not readable.

Biological sampling of black rockfish continued into FY2001, when information was collected from 3,395 fish. The number of samples, by port and sex, are summarized in Table 4. This information will be analyzed in FY2002.

**Other Rockfish species.** During FY2001 we increased our biological sampling of blue rockfish, the second most frequent rockfish species observed in the Oregon recreational fishery. We collected 1,507 blue rockfish samples from coastal ports. The number of samples by sex and port are summarized in Table 4. The age structures will be available for future stock assessment of this species.

Biological and genetic samples were gathered from 864 marine species, mostly rockfish, during FY2001. This was part of a special study involving observation trips on recreational charter vessels (see Task 3). Funding became available when our surfperch biologist retired. Additional funding was procured from the Oregon Department of Fish and Wildlife (ODFW) Restoration and Enhancement Board. The number of samples, by port, species, and sex, are summarized in Table 5.

Length and weight samples were taken from all rockfish species encountered in FY2001 in most ports sampled. The average lengths and weights, and sample size by species of samples gathered in calendar year 2000, are summarized in Tables 6, 7 and 8, respectively. The average lengths and weights, and sample size by species of samples gathered in calendar year 2001, are summarized in Tables 9, 10 and 11, respectively.

**Redtail surfperch.** Work on the surfperch complex is based out of our Charleston office and concentrates on the intensive recreational shore fishery along the southern Oregon coast. Otoliths from 1,909 redbtail surfperch collected in FY2000 were aged during FY2001; the age distribution by sex is shown in Table 12. The length distribution of these fish is shown in Table 13. The number of fish in Table 13 exceeds those in Table 12, as some otoliths were not readable.

During FY2001, we collected biological data and otoliths from 341 redbtail surfperch. MRFSS funded samplers participated in obtaining this information. Biological data gathered from these fish will be reported in FY2002.

**Other surfperch species.** Otoliths from white surfperch/seaperch, striped surfperch/seaperch, pile surfperch/seaperch, silver surfperch, and walleye surfperch collected in FY2000 from the Oregon recreational fishery were aged during FY2001. During the current reporting period staff aged white (181), pile (72), striped (71), walleye (58), calico (12), and silver (8) surfperch. The age distribution of all the fish sampled, by species and sex, are shown in Table 12. The corresponding length distribution by species and sex is presented in Table 13. The number of fish in Table 13 exceeds those in Table 12, as some otoliths were not readable.

During FY2001, we collected surfperch biological data and otoliths from 23 fish that were surfperch species other than redbait. MRFSS funded samplers participated in obtaining this information. Biological data gathered from these fish will be reported in FY2002.

**Pacific halibut.** Project staff were involved in collecting biological and fishery data from Oregon's recreational fishery for Pacific halibut. These data were provided to the International Pacific Halibut Commission and the National Marine Fishery Service for their use in managing this species. Length data from 5,048 halibut were taken during FY2001 from the Oregon recreational fishery and are summarized by port in Table 14.

**Lingcod.** During FY2001 we collected 1,952 lingcod fin rays for ageing from the Oregon recreational fishery (Table 4). The age distribution from a representative sample of fish collected in 2000 is detailed by port and sex in Table 15. The length-distribution of these same fish is detailed in Table 16. We have not aged 1999 samples. These will be aged in FY2002 along with 2001 samples.

**Other nearshore marine species.** During FY2001 we randomly sampled length and weights of most other marine species caught in the Oregon recreational fishery. The average lengths and weights, and sample size by species of samples gathered in calendar year 2000, are summarized in Tables 6, 7 and 8, respectively. The average lengths and weights, and sample size by species of samples gathered in calendar year 2001, are summarized in Tables 9, 10 and 11, respectively.

## **Task 2: Oregon recreational groundfish catch by species and angler effort statistics**

Supplemental angler creels were incorporated within the larger ODFW ocean boat sampling program starting in FY1999 to improve groundfish catch and effort sampling and develop a more comprehensive program that integrates all Oregon ocean recreational boat fishery sampling. Funding from this project allowed sampling to be conducted in nearly all Oregon ports. In addition, we expanded the sampling temporally to cover the entire year out of Newport, Depoe Bay, Charleston (starting in FY2000) and Brookings; the most active Oregon ports during the winter. Also, we expanded the program in most other ports sampled to cover the May through September period. This expansion continued in FY2001. We have reviewed the results of this work, which indicates approximately 5 percent of the annual harvest in the ocean boat recreational fishery occurs during the November through February period. Based on this work we plan to sample the major ports starting in FY2002 during March through October with sampling in minor ports during May through September.

During FY2002 we will finish summarizing the catch and effort statistics for the Oregon recreational groundfish fishery for the calendar year 2001. The 2000 statewide monthly catch summary by species is summarized in Table 17. The results from the 1999-2000 year round survey was used to extrapolate catch and effort during months not sampled.

Staff participated on the Pacific Recreational Fisheries Information Network (RecFIN) committee to coordinate sampling between the MRFSS survey and the ODFW Ocean Recreational Boat Sampling Program (ORBS) in Oregon marine waters. The ORBS program is responsible for producing catch and effort statistics for the ocean boat fishery. The MRFSS complements the ORBS program with demographic, economic and special add-on surveys. In addition, the MRFSS program is the only source of catch and effort estimates in the Oregon shore and estuary recreational fisheries.

### **Task 3: Stock assessment analysis**

**Black rockfish and yelloweye rockfish.** Staff assisted in stock assessments on black rockfish and yelloweye rockfish during FY2001. Besides providing estimates of historical annual harvest, age trends, and catch per angler trends in the Oregon recreational ocean boat fishery, staff participated in evaluating the assessments. Yelloweye rockfish was determined to be overfished. Black rockfish off Oregon and California is at a concern status, since the assessment indicated the abundance is less than half of estimated historical levels. ODFW plans to conduct a tagging study starting in 2002 to assist in providing exploitation rate information for future assessments.

**Discard study.** A special study was conducted in FY2001 to evaluate discard of canary rockfish in the Oregon recreational fishery. The angler bag limit of canary rockfish was reduced from 15 in 1999 to 3 in 2000 and to 1 in 2001 due to reduced abundance. Three seasonal employees were hired to ride on recreational charter vessels during the July through September period. Funding became available when our surfperch biologist retired. Additional funding was procured from the ODFW Restoration and Enhancement Board. The three seasonal employees completed 105 at-sea observations. The observed discard rate for canary rockfish was 11 percent, which compares to 8 percent reported by anglers during dockside interviews. Many fish were released due to their small size and not due to bag limit attainment. For example, the discard rate for blue rockfish and yelloweye rockfish was approximately 6 percent and for yellowtail rockfish the rate was 14 percent. The bag limit for these species is ten rockfish in the aggregate, with no sub-limit for these individual species. Most were released due to their small size. The discard rates observed by species are detailed in Table 18.

**Surfperch study.** A tagging study on the Oregon south coast, initiated in FY1992, was completed in FY2001. The final report, including biological analysis, is attached. Recommendations for future management of redbtail surfperch include a lowering of the recreational bag limit (presently at 25 fish per day) and/or closure during parturition. Action has already been taken to prohibit commercial retention during parturition. ODFW plans to take action to reduce the recreational daily bag limit.

#### **Task 4: Information dissemination**

The ODFW maintained a web site for Oregon marine recreational fishery regulations. Recreational regulations for finfish, including salmon and Pacific halibut, can be assessed through the menu located at [www.hmsc.edu/odfw/](http://www.hmsc.edu/odfw/). This same information can be assessed under the Marine Program Fishing Information menu on the ODFW home page located at [www.dfw.state.or.us/](http://www.dfw.state.or.us/). Also posted and continually updated inseason were catches for Pacific halibut and salmon quota fisheries.

Staff held 4 public meetings during FY2001 to discuss proposed changes to the Oregon recreational fishery for Pacific halibut and rockfish. In addition, a web-based survey was used to solicit angler opinions on various options under consideration.

Informational letters on final regulatory actions for the 2001 Oregon marine recreational fishery, and proposed changes to the 2002 fishery, were distributed to interested anglers and charter boat operators.

Periodically, as regulation changes occurred, we posted signs on the docks describing the changes. This information was also posted on our web site.

Staff responded to several requests for catch and effort statistics and other biological information. Staff also participated in the Oregon Coastal Sport Fishing Association's annual meeting.

#### **Task 5: Assessment of management approaches**

Staff assisted the Groundfish Management Team of the Pacific Fisheries Management Council by summarizing landing statistics from the Oregon recreational groundfish fishery. We also provided analysis of the effect of various management measures on groundfish fisheries under consideration for the year 2002 Oregon recreational fishery.

### **PROJECT 2: NEARSHORE FISH STUDIES**

Oregon intensified research studies on nearshore bottomfish species starting in 1998. The first project identified was to investigate differences in nearshore black rockfish populations between reef areas. In 1999, this work was expanded to include genetic stock identification for bottomfish species. We have been collecting black rockfish and other species at-sea to gather genetic samples and biological data, including age structures. The funding for this work comes from other sources. To complete this work we needed to hire a person to age the structures gathered. Starting in FY1999 funding was approved under the Sport Fish Restoration program to hire a biologist to assist in this research, and in particular, to age the black rockfish structures collected.

This report describes activities and results during FY2001. Funding budgeted for this project in FY2001 was completely spent.

The staff person funded by this project assisted in planning FY2001 at-sea research, conducting the research, ageing black rockfish samples from 2000, and maintained a biological database.

During the 2000 at-sea research staff collected over 1,700 rockfish otoliths including 901 black rockfish. The age reader funded by this project aged the black rockfish during FY2001 (Table 19). The lengths of these fish are summarized in Table 20, respectively. The number of fish in Table 20 exceeds those in Table 19, as one otolith was not readable.

During FY2001 the age reader was trained to age lingcod. A representative sample of lingcod collected in 2000 was aged and is reported under Task 1 of Project 1.

### **Acknowledgements**

Oregon acknowledges the hard work of several staff on these projects during FY2001. Many seasonal employees were involved in sampling the ocean boat recreational groundfish fishery. Carol Perkins aged black rockfish otoliths, compiled fishery and biological data, and distributed information to anglers. Darrell Pruden performed the surfperch studies. Bill Miller worked on the nearshore bottomfish research and aged black rockfish otoliths and lingcod fin rays. MRFSS samplers assisted in biological sampling of perch species.

**Table 1. List of common and scientific names of species sampled in the Oregon marine recreational fishery.**

| Common Name           | Scientific Name                    |
|-----------------------|------------------------------------|
| albacore tuna         | <i>Thunnus alalunga</i>            |
| arrowtooth flounder   | <i>Atheresthes stomias</i>         |
| big skate             | <i>Raja binoculata</i>             |
| black rockfish        | <i>Sebastes melanops</i>           |
| blue rockfish         | <i>Sebastes mystinus</i>           |
| blue shark            | <i>Prionace glauca</i>             |
| bocaccio              | <i>Sebastes paucispinis</i>        |
| brown rockfish        | <i>Sebastes auriculatus</i>        |
| buffalo sculpin       | <i>Enophrys bison</i>              |
| butter sole           | <i>Pleuronectes isolepis</i>       |
| cabezon               | <i>Scorpaenichthys marmoratus</i>  |
| california halibut    | <i>Paralichthys cakifomicus</i>    |
| canary rockfish       | <i>Sebastes aleutianus</i>         |
| chilipepper           | <i>Sebastes goodei</i>             |
| china rockfish        | <i>Sebastes nebulosus</i>          |
| coho salmon           | <i>Oncorhynchus kistch</i>         |
| copper rockfish       | <i>Sebastes caurinus</i>           |
| dover sole            | <i>Microstomus pacificus</i>       |
| grass rockfish        | <i>Sebastes rastrelliger</i>       |
| greenstriped rockfish | <i>Sebastes elongatus</i>          |
| jack mackerel         | <i>Trachurus symmetricus</i>       |
| jacksmelt             | <i>Atherinopsis californiensis</i> |
| kelp greenling        | <i>Hexagrammos decagrammus</i>     |
| lingcod               | <i>Ophiodon elongatus</i>          |
| longnose skate        | <i>Raja rhina</i>                  |
| pacific halibut       | <i>Hippoglaosus stenolepis</i>     |
| pacific mackerel      | <i>Scomber japonicus</i>           |
| pacific ocean perch   | <i>Sebastes alutus</i>             |
| pacific sanddab       | <i>Citharichthys sordidus</i>      |
| pacific whiting       | <i>Merluccius productus</i>        |
| petrale sole          | <i>Eopsetta jordani</i>            |
| pile surfperch        | <i>damalichthys vacca</i>          |
| quillback rockfish    | <i>Sebastes maliger</i>            |
| ratfish               | <i>Hydrolagus colliei</i>          |
| red irish lord        | <i>Hemilepidotus hemilepidotus</i> |
| redbanded rockfish    | <i>Sebastes babcocki</i>           |
| redstripe rockfish    | <i>Sebastes proriger</i>           |
| redtail surfperch     | <i>Amphistichus rhodeterus</i>     |
| rock greenling        | <i>Anoploma fimbria</i>            |
| rock sole             | <i>Pleuronectes bilineatus</i>     |
| rosethorn rockfish    | <i>Sebastes helvomaculatus</i>     |
| rosy rockfish         | <i>Sebastes rosaceus</i>           |
| sable fish            | <i>Hexagrammos lagocephalus</i>    |
| sand sole             | <i>Psettichthys melanostichtus</i> |
| silver surfperch      | <i>Hyperprosopon ellipticum</i>    |
| silvergray rockfish   | <i>Sebastes brevispinis</i>        |
| spiny dogfish shark   | <i>Squalus acanthias</i>           |
| starry flounder       | <i>Platichthys stellatus</i>       |
| striped perch         | <i>Embiota lateralis</i>           |
| tiger rockfish        | <i>Sebastes nigrocinctus</i>       |
| vermillion rockfish   | <i>Sebastes miniatus</i>           |
| walleye surfperch     | <i>Hyperprosopon argentum</i>      |
| white surfperch       | <i>Phanerodon furcatus</i>         |
| widow rockfish        | <i>Sebastes entomelas</i>          |
| wolf eel              | <i>Anarrhichthys ocellatus</i>     |
| yelloweye rockfish    | <i>Sebastes ruberrimus</i>         |
| yellowmouth rockfish  | <i>Sebastes reedi</i>              |
| yellowtail rockfish   | <i>Sebastes flavidus</i>           |



Table 2. Age distribution of black rockfish sampled from the 2000 Oregon recreational fishery by port.

| Age          | Garibaldi  |            | Pacific City |           |           | Depoe Bay  |            |            | Newport    |            |            | Bandon     |            |           | Charleston |            |            | Port Orford |            |            | Gold Beach |            |            | Brookings  |            |            | Totals      |             |             |             |             |             |             |
|--------------|------------|------------|--------------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|              | M          | F          | M            | F         | T         | M          | F          | T          | M          | F          | T          | M          | F          | T         | M          | F          | T          | M           | F          | T          | M          | F          | T          | M          | F          | T          |             |             |             |             |             |             |             |
|              |            |            |              |           |           |            |            |            |            |            |            |            |            |           |            |            |            |             |            |            |            |            |            |            |            |            |             |             |             |             |             |             |             |
| 2            |            |            |              |           |           |            |            |            |            |            |            |            |            |           |            |            |            |             |            |            |            |            |            |            |            |            |             |             |             |             |             |             |             |
| 3            | 1          | 1          | 2            |           |           | 5          | 1          | 6          | 2          | 4          | 8          | 12         | 2          | 4         | 5          | 2          | 4          | 6           | 2          | 1          | 3          | 2          | 1          | 3          | 1          | 14         | 26          | 1           | 12          | 14          | 30          | 30          | 60          |
| 4            | 4          | 2          | 6            | 2         | 1         | 22         | 11         | 33         | 34         | 33         | 67         | 3          | 3          | 6         | 16         | 18         | 37         | 3           | 1          | 4          | 3          | 1          | 4          | 46         | 35         | 81         | 162         | 104         | 266         | 135         | 113         | 251         |             |
| 5            | 21         | 22         | 43           | 12        | 9         | 59         | 72         | 131        | 95         | 96         | 191        | 11         | 13         | 24        | 57         | 45         | 104        | 21          | 25         | 46         | 10         | 13         | 23         | 162        | 104        | 266        | 448         | 399         | 849         | 448         | 399         | 849         |             |
| 6            | 45         | 41         | 86           | 20        | 17        | 67         | 84         | 151        | 98         | 94         | 192        | 25         | 21         | 46        | 92         | 70         | 164        | 48          | 43         | 91         | 32         | 31         | 63         | 141        | 141        | 282        | 568         | 542         | 1112        | 568         | 542         | 1112        |             |
| 7            | 38         | 46         | 84           | 13        | 19        | 52         | 66         | 118        | 51         | 52         | 103        | 20         | 16         | 36        | 52         | 61         | 113        | 22          | 29         | 51         | 21         | 25         | 46         | 95         | 76         | 171        | 364         | 390         | 754         | 364         | 390         | 754         |             |
| 8            | 49         | 60         | 109          | 16        | 13        | 43         | 47         | 90         | 40         | 44         | 84         | 13         | 10         | 23        | 32         | 42         | 74         | 12          | 13         | 25         | 27         | 28         | 55         | 34         | 37         | 71         | 266         | 294         | 560         | 266         | 294         | 560         |             |
| 9            | 32         | 38         | 70           | 10        | 17        | 29         | 30         | 59         | 33         | 31         | 64         | 3          | 12         | 15        | 34         | 34         | 69         | 10          | 10         | 20         | 22         | 21         | 43         | 40         | 25         | 65         | 213         | 218         | 432         | 213         | 218         | 432         |             |
| 10           | 23         | 29         | 52           | 6         | 8         | 24         | 23         | 47         | 23         | 23         | 46         | 10         | 6          | 16        | 20         | 23         | 43         | 8           | 6          | 14         | 11         | 10         | 21         | 19         | 8          | 27         | 144         | 136         | 280         | 144         | 136         | 280         |             |
| 11           | 18         | 24         | 42           | 4         | 4         | 8          | 15         | 23         | 13         | 6          | 19         | 8          | 6          | 14        | 12         | 11         | 23         | 2           | 2          | 4          | 7          | 5          | 12         | 8          | 6          | 14         | 85          | 70          | 155         | 85          | 70          | 155         |             |
| 12           | 8          | 10         | 18           | 2         | 2         | 4          | 11         | 11         | 9          | 3          | 12         | 2          | 2          | 4         | 10         | 4          | 14         | 3           | 4          | 7          | 7          | 6          | 13         | 9          | 5          | 14         | 61          | 47          | 108         | 61          | 47          | 108         |             |
| 13           | 6          | 8          | 14           | 1         | 2         | 3          | 8          | 16         | 6          | 2          | 8          | 4          | 1          | 5         | 4          | 2          | 6          | 2           | 2          | 3          | 2          | 5          | 2          | 2          | 2          | 2          | 4           | 36          | 27          | 63          | 36          | 27          | 63          |
| 14           | 5          | 8          | 13           | 1         | 1         | 3          | 3          | 1          | 4          | 7          | 3          | 3          | 1          | 4         | 3          | 5          | 8          | 1           | 1          | 2          | 4          | 2          | 10         | 4          | 4          | 4          | 34          | 34          | 68          | 34          | 34          | 68          |             |
| 15           | 7          | 3          | 10           | 2         | 1         | 3          | 7          | 2          | 9          | 3          | 3          | 3          | 3          | 3         | 3          | 1          | 4          | 2           | 2          | 4          | 3          | 2          | 5          | 4          | 4          | 4          | 34          | 11          | 45          | 34          | 11          | 45          |             |
| 16           | 9          | 1          | 10           | 1         | 1         | 1          | 1          | 2          | 3          | 9          | 9          | 1          | 1          | 5         | 4          | 1          | 5          | 2           | 2          | 2          | 4          | 4          | 4          | 4          | 4          | 4          | 4           | 35          | 4           | 39          | 35          | 4           | 39          |
| 17           | 3          | 1          | 3            | 1         | 1         | 1          | 3          | 4          | 3          | 3          | 3          | 2          | 2          | 2         | 2          | 1          | 3          | 2           | 2          | 2          | 2          | 2          | 2          | 2          | 3          | 3          | 3           | 16          | 6           | 22          | 16          | 6           | 22          |
| 18           | 1          | 1          | 2            |           |           | 5          | 3          | 5          | 1          | 1          | 1          | 1          | 1          | 1         | 3          | 3          | 3          | 1           | 1          | 1          | 2          | 2          | 2          | 1          | 1          | 1          | 2           | 10          | 3           | 13          | 10          | 3           | 13          |
| 19           | 1          | 1          | 1            |           |           | 2          | 1          | 3          | 1          | 1          | 1          | 2          | 2          | 2         | 3          | 3          | 3          | 1           | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1           | 4           | 1           | 5           | 4           | 1           | 5           |
| 20           | 1          | 1          | 1            |           |           | 1          | 1          | 1          | 4          | 4          | 4          | 4          | 1          | 1         | 2          | 2          | 2          | 2           | 2          | 2          | 1          | 1          | 1          | 3          | 3          | 3          | 3           | 6           | 6           | 12          | 6           | 6           | 12          |
| 21           | 1          | 1          | 1            |           |           | 1          | 1          | 1          | 1          | 1          | 1          | 2          | 2          | 2         | 2          | 2          | 2          | 2           | 2          | 2          | 1          | 1          | 1          | 1          | 1          | 1          | 1           | 2           | 2           | 4           | 2           | 2           | 4           |
| 22           | 1          | 1          | 1            |           |           | 1          | 1          | 1          | 1          | 1          | 1          | 2          | 2          | 2         | 2          | 2          | 2          | 2           | 2          | 2          | 1          | 1          | 1          | 1          | 1          | 1          | 1           | 2           | 2           | 4           | 2           | 2           | 4           |
| 23           | 1          | 1          | 1            |           |           | 1          | 1          | 1          | 1          | 1          | 1          | 2          | 2          | 2         | 2          | 2          | 2          | 2           | 2          | 2          | 1          | 1          | 1          | 1          | 1          | 1          | 1           | 2           | 2           | 4           | 2           | 2           | 4           |
| 24           | 1          | 1          | 1            |           |           | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1         | 1          | 1          | 1          | 1           | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1           | 2           | 2           | 4           | 2           | 2           | 4           |
| 25           | 1          | 1          | 1            |           |           | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1         | 1          | 1          | 1          | 1           | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1           | 3           | 3           | 6           | 3           | 3           | 6           |
| 31           | 1          | 1          | 1            |           |           | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1         | 1          | 1          | 1          | 1           | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1           | 1           | 1           | 1           | 1           | 1           | 1           |
| <b>Total</b> | <b>273</b> | <b>294</b> | <b>567</b>   | <b>89</b> | <b>94</b> | <b>183</b> | <b>356</b> | <b>369</b> | <b>725</b> | <b>435</b> | <b>393</b> | <b>828</b> | <b>118</b> | <b>93</b> | <b>211</b> | <b>347</b> | <b>323</b> | <b>678</b>  | <b>142</b> | <b>144</b> | <b>286</b> | <b>163</b> | <b>148</b> | <b>311</b> | <b>589</b> | <b>454</b> | <b>1043</b> | <b>2512</b> | <b>2312</b> | <b>4832</b> | <b>2512</b> | <b>2312</b> | <b>4832</b> |

| Average Age | 8.8 | 8.4 | 8.6 | 7.7 | 7.9 | 7.8 | 7.8 | 7.4 | 7.6 | 7.3 | 6.5 | 7.0 | 8.8 | 7.6 | 8.3 | 7.5 | 7.3 | 7.4 | 7.4 | 6.8 | 7.1 | 8.9 | 8.0 | 8.5 | 6.6 | 6.3 | 6.5 | 7.6 | 7.2 | 7.4 |  |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |

M = Male F = Female T = Total

Table 3. Length distribution of black rockfish sampled from the 2000 Oregon recreational fishery by port.

| Fork Length (mm) | Number of Fish |     |              |     |           |     |         |     |            |     |        |     | Total       |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
|------------------|----------------|-----|--------------|-----|-----------|-----|---------|-----|------------|-----|--------|-----|-------------|-----|------------|-----|-----------|-----|-------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
|                  | Garibaldi      |     | Pacific City |     | Depoe Bay |     | Newport |     | Charleston |     | Bandon |     | Port Orford |     | Gold Beach |     | Brookings |     | Total |     |     |     |     |     |     |     |      |      |      |      |
|                  | M              | F   | M            | F   | M         | F   | M       | F   | M          | F   | M      | F   | M           | F   | M          | F   | M         | F   | M     | F   | T   |     |     |     |     |     |      |      |      |      |
| 200-209          |                |     |              |     |           |     |         | 1   |            |     |        |     |             |     |            |     |           |     |       |     | 1   |     |     |     |     |     |      |      |      |      |
| 210-219          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 220-229          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 230-239          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 240-249          | 1              |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 250-259          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 260-269          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 270-279          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 280-289          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 290-299          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 300-309          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 310-319          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 320-329          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 330-339          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 340-349          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 350-359          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 360-369          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 370-379          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 380-389          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 390-399          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 400-409          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 410-419          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 420-429          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 430-439          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 440-449          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 450-459          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 460-469          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 470-479          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 480-489          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 490-499          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 500-509          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 510-519          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 520-529          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 530-539          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 540-549          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| 550-559          |                |     |              |     |           |     |         |     |            |     |        |     |             |     |            |     |           |     |       |     |     |     |     |     |     |     |      |      |      |      |
| Total            | 273            | 294 | 567          | 89  | 95        | 184 | 357     | 370 | 727        | 435 | 393    | 828 | 349         | 326 | 675        | 118 | 92        | 210 | 142   | 145 | 287 | 163 | 141 | 304 | 589 | 453 | 1042 | 2515 | 2318 | 4833 |
| Average Length   | 385            | 396 | 391          | 374 | 386       | 381 | 371     | 378 | 375        | 362 | 367    | 364 | 371         | 381 | 376        | 379 | 382       | 380 | 367   | 370 | 369 | 376 | 381 | 378 | 368 | 373 | 370  | 371  | 378  | 374  |

M = Male F = Female T = Total

**Table 4. Number of fish by species, sex and port sampled for age structures from the Oregon ocean boat recreational fishery during FY2001.**

| Port         | Number of Fish |             |             |               |             |             |             |            |             |
|--------------|----------------|-------------|-------------|---------------|-------------|-------------|-------------|------------|-------------|
|              | Black Rockfish |             |             | Blue Rockfish |             |             | Lingcod     |            |             |
|              | Male           | Female      | Total       | Male          | Female      | Total       | Male        | Female     | Total       |
| Garibaldi    | 236            | 283         | 519         | 61            | 130         | 191         | 143         | 156        | 299         |
| Pacific City | 29             | 42          | 71          | 1             | 15          | 16          | 26          | 20         | 46          |
| Depoe Bay    | 89             | 96          | 185         | 41            | 49          | 90          | 103         | 96         | 199         |
| Newport      | 340            | 355         | 695         | 131           | 342         | 473         | 244         | 269        | 513         |
| Winches. Bay |                |             |             |               |             |             | 1           | 7          | 8           |
| Charleston   | 232            | 185         | 417         | 113           | 177         | 290         | 176         | 62         | 238         |
| Bandon       | 65             | 72          | 137         | 14            | 56          | 70          | 28          | 27         | 55          |
| Port Orford  | 82             | 79          | 161         | 9             | 44          | 53          | 36          | 44         | 80          |
| Gold Beach   | 140            | 341         | 481         | 5             | 54          | 59          | 51          | 42         | 93          |
| Brookings    | 356            | 373         | 729         | 62            | 203         | 265         | 200         | 221        | 421         |
| <b>Total</b> | <b>1569</b>    | <b>1826</b> | <b>3395</b> | <b>437</b>    | <b>1070</b> | <b>1507</b> | <b>1008</b> | <b>944</b> | <b>1952</b> |

Table 5. Number of fish by species, sex and port sampled for genetic tissue from the 2001 Oregon recreational fishery.

| FishName       | Garibaldi |      | Depoe Bay |      | Newport |      | Charleston |      | Bandon |      | Brookings |      | Total |
|----------------|-----------|------|-----------|------|---------|------|------------|------|--------|------|-----------|------|-------|
|                | Female    | Male | Female    | Male | Female  | Male | Female     | Male | Female | Male | Female    | Male |       |
|                |           |      |           |      |         |      |            |      |        |      |           |      |       |
| Blue RF        | 38        | 12   |           |      |         |      |            |      |        |      |           |      | 50    |
| Yelloweye RF   | 29        | 19   | 1         | 4    | 2       | 2    | 9          | 1    | 3      |      | 1         |      | 71    |
| Canary RF      | 34        | 26   | 33        | 16   | 10      | 11   | 6          | 2    | 2      | 2    | 12        | 17   | 171   |
| China RF       | 20        | 9    | 14        | 7    | 13      | 11   | 8          | 1    | 9      | 6    |           | 2    | 100   |
| Yellowtail RF  |           |      | 5         | 2    | 18      | 7    | 2          | 2    | 5      | 2    |           | 2    | 43    |
| Copper RF      | 6         | 3    | 1         | 3    | 8       | 9    | 2          | 1    | 1      | 1    | 1         | 1    | 37    |
| Quillback RF   | 25        | 18   | 17        | 17   | 13      | 11   |            |      | 2      | 1    | 1         |      | 105   |
| Boccacio       | 14        | 6    |           |      |         |      |            |      |        |      |           |      | 20    |
| Brown RF       |           |      |           |      |         |      | 4          |      |        |      |           |      | 4     |
| Tiger RF       | 11        | 8    |           | 5    |         | 2    |            | 2    |        | 2    |           |      | 30    |
| Vermilion RF   | 2         | 1    | 2         | 1    | 1       | 1    | 2          | 3    | 12     | 5    | 1         | 1    | 32    |
| Lingcod        | 35        | 4    |           |      |         |      | 7          | 12   | 6      | 7    | 2         | 2    | 75    |
| Kelp greenling | 22        | 18   | 6         | 4    | 7       | 13   | 3          | 1    | 1      |      | 1         |      | 76    |
| Cabezon        | 6         | 19   | 4         | 5    | 5       | 11   |            |      |        |      |           |      | 50    |
| Grand Total    | 242       | 143  | 83        | 64   | 77      | 78   | 43         | 23   | 41     | 26   | 19        | 25   | 864   |

Table 6. Average fork length (mm) by species and month sampled from the Oregon ocean boat recreational fishery during 2000.

| Species             | Month |     |     |     |      |      |      |      |      |     |     |     | Grand Total |
|---------------------|-------|-----|-----|-----|------|------|------|------|------|-----|-----|-----|-------------|
|                     | Jan   | Feb | Mar | Apr | May  | Jun  | Jul  | Aug  | Sep  | Oct | Nov | Dec |             |
| Black RF            | 390   | 381 | 359 | 373 | 374  | 379  | 388  | 388  | 381  | 379 | 381 | 390 | 381         |
| Blue RF             | 297   | 300 | 293 | 318 | 316  | 313  | 326  | 321  | 323  | 317 | 308 | 299 | 315         |
| Yelloweye RF        |       | 476 | 409 | 418 | 437  | 431  | 457  | 410  | 453  | 358 | 394 | 389 | 429         |
| Canary RF           | 370   | 318 | 334 | 345 | 361  | 346  | 345  | 343  | 342  | 416 | 323 | 320 | 349         |
| China RF            |       | 309 | 350 | 345 | 334  | 342  | 342  | 344  | 344  | 327 | 332 | 351 | 342         |
| Yellowtail RF       |       | 292 | 343 | 366 | 372  | 356  | 371  | 346  | 377  | 359 | 323 | 315 | 361         |
| Copper RF           |       |     |     | 406 | 401  | 396  | 404  | 413  | 375  | 371 | 391 | 441 | 401         |
| Quillback RF        |       | 338 | 377 | 338 | 345  | 348  | 361  | 343  | 346  | 329 | 330 | 351 | 347         |
| Blackgill RF        |       |     |     |     |      |      | 367  |      |      |     |     |     | 367         |
| Bocaccio            |       |     |     | 557 | 601  |      | 556  | 566  | 362  | 714 |     |     | 565         |
| Brown RF            |       |     |     |     | 384  |      |      |      |      |     |     |     | 384         |
| Greenspotted RF     |       |     |     |     |      |      |      | 291  |      |     |     |     | 291         |
| Greenstriped RF     |       |     |     | 307 | 314  | 293  | 304  | 286  | 312  |     |     |     | 299         |
| Grass RF            |       |     |     |     |      | 410  |      |      | 445  |     |     |     | 428         |
| Pacific Ocean perch |       |     |     |     |      | 310  |      |      |      |     |     |     | 310         |
| Pygmy RF            |       |     |     |     |      | 357  |      |      |      |     |     |     | 357         |
| Redbanded RF        |       |     |     |     |      | 449  | 425  |      |      |     |     |     | 433         |
| Redstripe RF        |       |     |     |     | 321  | 255  | 351  | 270  | 344  |     |     |     | 318         |
| Rosethorn RF        |       |     |     | 280 | 245  | 273  | 241  | 269  | 364  | 231 |     |     | 274         |
| Rosy RF             |       |     |     | 295 |      | 339  | 324  | 258  |      |     |     |     | 284         |
| Silvergray RF       |       |     |     |     | 457  |      |      |      |      |     |     |     | 457         |
| Speckled RF         |       |     |     | 300 |      |      |      |      |      |     |     |     | 300         |
| Tiger RF            |       | 374 |     | 390 | 413  | 468  | 389  | 375  | 373  |     |     |     | 386         |
| Vermilion RF        |       | 517 | 389 | 425 | 429  | 426  | 441  | 430  | 423  | 585 | 437 | 405 | 430         |
| Widow RF            |       | 355 | 308 | 326 | 334  | 368  | 370  | 376  | 395  | 432 |     |     | 368         |
| Rockfish spp        |       |     |     |     |      | 351  |      | 293  |      |     |     |     | 308         |
| Pacific halibut     |       |     |     |     | 1011 | 1124 | 1058 | 1044 | 1024 |     |     |     | 1013        |
| Sand sole           |       |     |     | 378 | 360  |      | 336  |      |      |     |     |     | 352         |
| California halibut  |       |     |     |     |      | 797  | 758  |      |      |     |     |     | 778         |
| Pacific sanddab     |       |     |     |     |      |      | 256  |      | 258  |     |     |     | 257         |
| Rock sole           |       |     |     |     |      |      | 230  |      |      |     |     |     | 230         |
| Arrowtooth flounder |       |     |     |     |      |      |      | 360  |      |     |     |     | 360         |
| Lingcod             | 683   | 676 | 673 | 681 | 688  | 682  | 694  | 696  | 700  | 687 | 672 | 681 | 688         |
| Kelp greenling      |       | 342 | 363 | 350 | 353  | 353  | 346  | 353  | 357  | 354 | 361 | 343 | 352         |
| Rock greenling      |       |     |     |     | 326  | 327  | 350  |      | 394  | 365 |     |     | 341         |
| Cabezon             | 496   | 452 | 488 | 489 | 478  | 467  | 492  | 482  | 491  | 455 | 501 | 481 | 480         |
| Red Irish lord      |       |     |     | 352 |      | 309  |      |      |      |     |     |     | 323         |
| Buffalo sculpin     |       |     |     |     |      |      |      |      | 339  |     |     |     | 339         |
| Striped seaperch    |       |     |     |     |      |      |      | 308  | 311  |     |     |     | 310         |
| Pacific mackerel    |       |     |     |     |      |      |      | 322  |      |     |     |     | 322         |
| Sablefish           |       |     |     |     |      |      |      |      | 615  |     |     |     | 615         |
| Giant kelpfish      |       |     |     |     |      | 346  |      |      |      |     |     |     | 346         |
| Jacksmelt           |       |     |     |     |      |      | 298  |      |      |     |     |     | 298         |
| Rock prickleback    |       |     |     |     |      | 335  |      |      |      |     |     |     | 335         |
| Spotted ratfish     |       |     |     |     | 600  |      |      |      |      |     |     |     | 600         |

RF = rockfish

Table 7. Average weight (kg) by species and month sampled from the Oregon ocean boat recreational fishery during 2000.

| Species             | Month |     |     |     |     |     |     |     |     |     |     |     | Grand Total |
|---------------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------|
|                     | Jan   | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |             |
| Black RF            | 1.1   | 1.0 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0         |
| Blue RF             | 0.5   | 0.6 | 0.5 | 0.7 | 0.6 | 0.6 | 0.7 | 0.7 | 0.7 | 0.6 | 0.6 | 0.6 | 0.6         |
| Yelloweye RF        |       | 4.9 | 1.5 | 1.6 | 1.7 | 1.6 | 2.1 | 1.5 | 2.0 | 1.0 | 1.4 | 1.3 | 1.7         |
| Canary RF           | 1.0   | 1.0 | 0.7 | 0.8 | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 1.4 | 0.7 | 0.7 | 0.8         |
| China RF            |       | 0.7 | 1.0 | 0.9 | 0.8 | 0.9 | 0.9 | 0.9 | 0.8 | 0.8 | 0.7 | 1.0 | 0.9         |
| Yellowtail RF       |       | 0.5 | 0.7 | 0.8 | 0.8 | 0.8 | 0.9 | 0.7 | 1.0 | 0.9 | 0.6 | 0.5 | 0.8         |
| Copper RF           |       |     |     | 1.5 | 1.3 | 1.3 | 1.4 | 1.5 | 1.1 | 1.1 | 1.2 | 1.8 | 1.4         |
| Quillback RF        |       | 0.8 | 1.3 | 0.8 | 0.9 | 0.9 | 1.0 | 0.9 | 0.9 | 0.8 | 0.7 | 1.0 | 0.9         |
| Blackgill RF        |       |     |     |     |     |     | 1.0 |     |     |     |     |     | 1.0         |
| Bocaccio            |       |     |     | 2.1 | 2.6 |     | 2.1 | 2.2 | 0.6 | 4.6 |     |     | 2.3         |
| Brown RF            |       |     |     |     | 0.8 |     |     |     |     |     |     |     | 0.8         |
| Greenspotted RF     |       |     |     |     |     |     |     | 0.4 |     |     |     |     | 0.4         |
| Greenstriped RF     |       |     |     | 0.5 | 0.6 | 0.3 | 0.4 | 0.3 | 0.4 |     |     |     | 0.4         |
| Grass RF            |       |     |     |     |     | 1.2 |     |     | 2.0 |     |     |     | 1.6         |
| Pacific Ocean perch |       |     |     |     |     | 0.6 |     |     |     |     |     |     | 0.6         |
| Pygmy RF            |       |     |     |     |     | 1.1 |     |     |     |     |     |     | 1.1         |
| Redbanded RF        |       |     |     |     |     | 2.0 | 1.4 |     |     |     |     |     | 1.6         |
| Redstripe RF        |       |     |     |     | 0.5 | 0.3 | 0.6 | 0.3 | 0.6 |     |     |     | 0.5         |
| Rosethorn RF        |       |     |     | 0.4 | 0.3 | 0.3 | 0.2 | 0.3 | 1.1 | 0.3 |     |     | 0.4         |
| Rosy RF             |       |     |     | 0.5 |     | 0.8 | 0.7 | 0.2 |     |     |     |     | 0.4         |
| Silvergray RF       |       |     |     |     | 1.4 |     |     |     |     |     |     |     | 1.4         |
| Speckled RF         |       |     |     | 0.6 |     |     |     |     |     |     |     |     | 0.6         |
| Tiger RF            |       | 1.0 |     | 1.1 | 1.6 | 2.1 | 1.3 | 1.1 | 1.0 |     |     |     | 1.2         |
| Vermilion RF        |       | 2.5 | 1.2 | 1.7 | 1.6 | 1.7 | 1.8 | 1.6 | 1.6 | 3.8 | 1.8 | 1.4 | 1.7         |
| Widow RF            |       | 1.0 | 0.5 | 0.6 | 0.6 | 0.8 | 0.9 | 1.0 | 1.1 | 1.4 |     |     | 0.9         |
| Rockfish spp        |       |     |     |     |     | 0.7 |     | 0.5 |     |     |     |     | 0.6         |
| Sand sole           |       |     |     | 0.6 | 0.7 |     | 0.5 |     |     |     |     |     | 0.6         |
| California halibut  |       |     |     |     |     | 6.6 | 5.6 |     |     |     |     |     | 6.1         |
| Pacific sanddab     |       |     |     |     |     |     | 0.1 |     | 0.2 |     |     |     | 0.2         |
| Rock sole           |       |     |     |     |     |     | 0.6 |     |     |     |     |     | 0.6         |
| Arrowtooth flounder |       |     |     |     |     |     |     | 0.9 |     |     |     |     | 0.9         |
| Lingcod             | 2.9   | 3.0 | 3.0 | 3.1 | 3.3 | 3.1 | 3.4 | 3.4 | 3.5 | 3.5 | 3.2 | 3.4 | 3.3         |
| Kelp greenling      |       | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 | 0.6 | 0.7 | 0.6 | 0.7 | 0.6         |
| Rock greenling      |       |     |     |     | 0.7 | 0.6 | 0.7 |     | 1.0 | 0.7 |     |     | 0.7         |
| Cabezon             | 1.9   | 1.6 | 2.1 | 2.2 | 2.1 | 2.0 | 2.2 | 2.2 | 2.4 | 1.8 | 2.5 | 2.2 | 2.1         |
| Red Irish lord      |       |     |     | 0.8 |     | 0.6 |     |     |     |     |     |     | 0.6         |
| Buffalo sculpin     |       |     |     |     |     |     |     |     | 1.0 |     |     |     | 1.0         |
| Striped seaperch    |       |     |     |     |     |     |     | 0.6 | 0.6 |     |     |     | 0.6         |
| Pacific mackerel    |       |     |     |     |     |     |     | 0.4 |     |     |     |     | 0.4         |
| Sablefish           |       |     |     |     |     |     |     |     | 2.3 |     |     |     | 2.3         |
| Giant kelpfish      |       |     |     |     |     | 0.8 |     |     |     |     |     |     | 0.8         |
| Jacksmelt           |       |     |     |     |     |     | 0.2 |     |     |     |     |     | 0.2         |
| Rock prickleback    |       |     |     |     |     | 0.9 |     |     |     |     |     |     | 0.9         |
| Spotted ratfish     |       |     |     |     | 1.4 |     |     |     |     |     |     |     | 1.4         |

RF = rockfish

Table 8. Number of fish sampled for average weight and length in the Oregon ocean boat recreational fishery during 2000.

| Species             | Month |     |     |      |      |      |      |      |      |     |     |     | Total |
|---------------------|-------|-----|-----|------|------|------|------|------|------|-----|-----|-----|-------|
|                     | Jan   | Feb | Mar | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct | Nov | Dec |       |
| Black RF            | 2     | 17  | 3   | 274  | 381  | 474  | 409  | 374  | 222  | 90  | 238 | 173 | 2657  |
| Blue RF             | 5     | 21  | 51  | 125  | 163  | 285  | 197  | 319  | 220  | 127 | 239 | 127 | 1879  |
| Yelloweye RF        | 0     | 4   | 2   | 50   | 44   | 56   | 48   | 108  | 59   | 5   | 8   | 4   | 388   |
| Canary RF           | 5     | 16  | 8   | 130  | 193  | 338  | 226  | 284  | 203  | 76  | 27  | 29  | 1535  |
| China RF            |       | 4   | 1   | 22   | 31   | 100  | 67   | 86   | 92   | 20  | 11  | 17  | 451   |
| Yellowtail RF       |       | 1   | 4   | 73   | 113  | 200  | 114  | 168  | 139  | 52  | 13  | 11  | 888   |
| Copper RF           |       |     |     | 12   | 49   | 67   | 32   | 67   | 25   | 9   | 7   | 5   | 273   |
| Quillback RF        |       | 3   | 2   | 20   | 35   | 102  | 60   | 91   | 43   | 14  | 8   | 8   | 386   |
| Blackgill RF        |       |     |     |      |      |      | 1    |      |      |     |     |     | 1     |
| Bocaccio            |       |     |     | 2    | 8    |      | 2    | 1    | 2    | 1   |     |     | 16    |
| Brown RF            |       |     |     |      | 2    |      |      |      |      |     |     |     | 2     |
| Greenspotted RF     |       |     |     |      |      |      |      | 2    |      |     |     |     | 2     |
| Greenstriped RF     |       |     |     | 28   | 15   | 29   | 1    | 25   | 6    |     |     |     | 104   |
| Grass RF            |       |     |     |      |      | 1    |      |      | 1    |     |     |     | 2     |
| Pacific Ocean perch |       |     |     |      |      | 2    |      |      |      |     |     |     | 2     |
| Pygmy RF            |       |     |     |      |      | 1    |      |      |      |     |     |     | 1     |
| Redbanded RF        |       |     |     |      |      | 1    | 2    |      |      |     |     |     | 3     |
| Redstripe RF        |       |     |     |      | 1    | 1    | 1    | 1    | 3    |     |     |     | 7     |
| Rosethorn RF        |       |     |     | 10   | 6    | 3    | 3    | 7    | 4    | 3   |     |     | 36    |
| Rosy RF             |       |     |     | 3    |      | 3    | 1    | 9    |      |     |     |     | 16    |
| Silvergray RF       |       |     |     |      | 2    |      |      |      |      |     |     |     | 2     |
| Speckled RF         |       |     |     | 1    |      |      |      |      |      |     |     |     | 1     |
| Tiger RF            |       | 1   |     | 7    | 5    | 3    | 8    | 26   | 11   |     |     |     | 61    |
| Vermilion RF        |       | 2   | 2   | 21   | 35   | 73   | 60   | 73   | 45   | 1   | 4   | 4   | 320   |
| Widow RF            |       | 1   | 1   | 32   | 21   | 59   | 33   | 40   | 33   | 15  |     |     | 235   |
| Rockfish spp        |       |     |     |      |      | 1    |      | 3    |      |     |     |     | 4     |
| Pacific halibut     |       |     |     |      | 3012 | 19   | 39   | 37   | 166  |     |     |     | 3273  |
| Sand sole           |       |     |     | 2    | 2    |      | 4    |      |      |     |     |     | 8     |
| California halibut  |       |     |     |      |      | 1    | 1    |      |      |     |     |     | 2     |
| Pacific sanddab     |       |     |     |      |      |      | 10   |      | 13   |     |     |     | 23    |
| Rock sole           |       |     |     |      |      |      | 1    |      |      |     |     |     | 1     |
| Arrowtooth flounder |       |     |     |      |      |      |      | 1    |      |     |     |     | 1     |
| Lingcod             | 29    | 119 | 62  | 223  | 255  | 382  | 285  | 293  | 297  | 93  | 72  | 61  | 2171  |
| Kelp greenling      |       | 11  | 7   | 77   | 63   | 215  | 71   | 102  | 90   | 22  | 15  | 20  | 693   |
| Rock greenling      |       |     |     |      | 3    | 3    | 1    |      | 1    | 1   |     |     | 9     |
| Cabezon             | 5     | 9   | 8   | 60   | 68   | 137  | 97   | 68   | 24   | 16  | 9   | 26  | 527   |
| Red Irish lord      |       |     |     | 1    |      | 2    |      |      |      |     |     |     | 3     |
| Buffalo sculpin     |       |     |     |      |      |      |      |      | 1    |     |     |     | 1     |
| Striped seaperch    |       |     |     |      |      |      |      | 2    | 5    |     |     |     | 7     |
| Pacific mackerel    |       |     |     |      |      |      |      | 1    |      |     |     |     | 1     |
| Sablefish           |       |     |     |      |      |      |      |      | 1    |     |     |     | 1     |
| Giant kelpfish      |       |     |     |      |      | 1    |      |      |      |     |     |     | 1     |
| Jacksmelt           |       |     |     |      |      |      | 2    |      |      |     |     |     | 2     |
| Rock prickleback    |       |     |     |      |      | 1    |      |      |      |     |     |     | 1     |
| Spotted ratfish     |       |     |     |      | 1    |      |      |      |      |     |     |     | 1     |
| Grand Total         | 46    | 209 | 151 | 1173 | 4508 | 2560 | 1776 | 2188 | 1706 | 545 | 651 | 485 | 15998 |

RF = rockfish

Table 9. Average fork length (mm) by species and month sampled from the Oregon ocean boat recreational fishery during 2001.

| Species             | Month |     |     |     |      |      |      |      |      |     | Overall Avg |
|---------------------|-------|-----|-----|-----|------|------|------|------|------|-----|-------------|
|                     | Jan   | Feb | Mar | Apr | May  | Jun  | Jul  | Aug  | Sep  | Oct |             |
| Black RF            | 377   | 378 | 383 | 387 | 389  | 389  | 402  | 393  | 397  | 378 | 390         |
| Blue RF             | 294   | 303 | 307 | 314 | 310  | 325  | 325  | 319  | 325  | 292 | 316         |
| Yelloweye RF        | 425   | 432 | 419 | 461 | 457  | 437  | 439  | 443  | 454  | 508 | 445         |
| Canary RF           | 339   | 329 | 343 | 350 | 361  | 354  | 362  | 377  | 382  | 333 | 361         |
| China RF            | 355   | 350 | 334 | 335 | 333  | 344  | 348  | 345  | 340  | 360 | 343         |
| Yellowtail RF       | 306   | 308 | 353 | 347 | 370  | 350  | 358  | 366  | 372  | 380 | 361         |
| Copper RF           | 439   | 391 | 419 | 396 | 386  | 400  | 412  | 397  | 405  | 454 | 401         |
| Quillback RF        | 337   | 362 | 354 | 352 | 358  | 351  | 353  | 366  | 369  | 387 | 358         |
| Bocaccio RF         |       |     |     | 526 | 521  | 551  | 518  | 636  | 521  |     | 541         |
| Brown RF            |       |     |     |     |      | 364  | 384  |      |      |     | 371         |
| Chillipepper RF     |       |     |     |     |      |      |      | 298  |      |     | 298         |
| Greenstriped RF     |       |     |     |     | 303  | 340  | 236  | 321  | 312  | 263 | 312         |
| Grass RF            |       |     | 350 |     | 395  | 408  | 370  | 442  |      |     | 390         |
| Redbanded RF        |       |     |     |     | 443  | 377  |      | 530  |      |     | 470         |
| Redstripe RF        |       |     |     | 288 | 345  | 275  | 290  | 299  | 330  |     | 305         |
| Rosethorn RF        |       |     |     |     | 264  | 269  | 292  | 255  | 273  |     | 271         |
| Rosy RF             |       |     | 270 | 247 | 266  | 284  | 266  | 282  | 273  | 322 | 276         |
| Tiger RF            |       | 429 | 448 | 371 | 371  | 380  | 389  | 374  | 397  | 401 | 383         |
| Silvergray RF       |       |     |     |     | 485  |      |      | 473  | 510  |     | 488         |
| Vermilion RF        |       | 423 | 423 | 413 | 419  | 425  | 448  | 443  | 589  |     | 446         |
| Widow RF            |       | 282 | 339 | 374 | 402  | 386  | 374  | 396  | 350  |     | 380         |
| Yellowmouth RF      |       |     |     |     | 515  |      |      |      |      |     | 515         |
| Pacific halibut     |       |     |     |     | 1001 | 1054 | 1049 | 1024 | 1042 |     | 1013        |
| Sand Sole           |       | 387 | 321 | 366 | 289  |      | 256  | 428  |      |     | 321         |
| Starry Flounder     |       | 252 |     |     |      |      |      | 439  | 466  |     | 399         |
| California Halibut  |       |     |     |     |      |      | 415  | 530  |      |     | 473         |
| Pacific Sanddab     |       |     |     |     |      |      |      | 255  | 279  |     | 271         |
| Butter Sole         |       |     | 317 |     |      |      |      |      |      |     | 317         |
| Petrale Sole        |       |     |     |     |      |      |      |      | 368  |     | 368         |
| Rock Sole           |       |     |     |     |      |      |      |      | 374  |     | 374         |
| Arrowtooth Flounder |       |     |     |     | 555  |      |      | 573  |      |     | 567         |
| Lingcod             | 688   | 702 | 697 | 740 | 717  | 714  | 731  | 719  | 719  | 696 | 718         |
| Kelp Greenling      | 356   | 348 | 347 | 355 | 349  | 341  | 345  | 345  | 340  | 346 | 345         |
| Rock Greenling      |       |     |     |     | 350  | 343  |      | 245  |      |     | 325         |
| Cabezon             | 468   | 501 | 460 | 470 | 474  | 481  | 476  | 464  | 478  | 448 | 474         |
| Red Irish Lord      |       |     | 387 | 386 | 357  |      | 353  | 376  | 399  |     | 377         |
| Buffalo Sculpin     |       |     | 350 |     | 280  |      | 322  |      |      | 332 | 321         |
| Blue shark          |       |     |     |     |      | 820  | 889  |      | 1040 |     | 916         |
| Jack Mackerel       |       |     |     |     |      |      | 543  |      |      |     | 543         |
| Pacific Markerel    |       |     |     |     |      | 335  |      |      |      |     | 335         |
| Pacific Whiting     |       |     |     |     |      |      |      | 500  |      |     | 500         |
| Sablefish           |       |     |     |     | 623  |      |      | 738  | 717  |     | 729         |
| Wolf Eel            |       |     |     |     | 1430 |      | 1340 |      |      |     | 1370        |
| Jack Smelt          |       |     |     |     |      | 294  |      |      |      |     | 294         |
| Coho salmon         |       |     |     |     |      | 601  | 623  | 659  |      |     | 616         |
| Redtail Surfperch   |       |     |     |     |      |      |      | 375  |      |     | 375         |
| Silver Surfperch    |       |     |     |     |      |      | 261  |      |      |     | 261         |
| Striped Surfperch   |       |     |     |     | 306  |      |      | 303  | 311  |     | 305         |

RF = rockfish



Table 10. Average weight (kg) by species and month sampled from the Oregon ocean boat recreational fishery during 2001.

| Species             | Month |     |     |     |     |     |     |     |     |     | Overall Avg |
|---------------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------|
|                     | Jan   | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct |             |
| Black RF            | 1.0   | 1.0 | 1.1 | 1.0 | 1.1 | 1.1 | 1.2 | 1.2 | 1.2 | 1.1 | 1.1         |
| Blue RF             | 0.5   | 0.6 | 0.7 | 0.6 | 0.6 | 0.7 | 0.8 | 0.7 | 0.7 | 0.6 | 0.7         |
| Yelloweye RF        | 1.7   | 1.9 | 1.7 | 2.0 | 2.0 | 1.8 | 1.9 | 1.9 | 2.2 | 3.9 | 1.9         |
| Canary RF           | 0.8   | 0.8 | 1.0 | 0.8 | 0.9 | 0.9 | 1.0 | 1.1 | 1.2 | 0.9 | 1.0         |
| China RF            | 1.0   | 1.0 | 0.9 | 0.9 | 0.8 | 0.9 | 1.0 | 1.0 | 1.0 | 1.2 | 1.0         |
| Yellowtail RF       | 0.6   | 0.6 | 0.9 | 0.7 | 0.9 | 0.7 | 0.9 | 0.9 | 1.0 | 1.1 | 0.9         |
| Copper RF           | 1.7   | 1.5 | 1.6 | 1.3 | 1.2 | 1.4 | 1.4 | 1.3 | 1.5 | 2.2 | 1.4         |
| Quillback RF        | 0.9   | 1.2 | 1.1 | 1.0 | 1.0 | 0.9 | 1.0 | 1.1 | 1.1 | 1.2 | 1.1         |
| Bocaccio RF         |       |     |     | 1.7 | 2.1 | 2.2 | 2.1 | 3.8 | 1.9 |     | 2.3         |
| Brown RF            |       |     |     |     |     | 0.8 | 0.9 |     |     |     | 0.9         |
| Chillipepper RF     |       |     |     |     |     |     |     | 0.4 |     |     | 0.4         |
| Greenstriped RF     |       |     |     |     | 0.5 | 0.7 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5         |
| Grass RF            |       |     | 0.9 |     | 1.6 | 1.3 | 1.0 | 2.0 |     |     | 1.3         |
| Redbanded RF        |       |     |     |     | 1.8 | 1.0 |     | 3.4 |     |     | 2.4         |
| Redstripe RF        |       |     |     | 0.3 | 0.5 | 0.2 | 0.3 | 0.5 | 0.5 |     | 0.4         |
| Rosethorn RF        |       |     |     |     | 0.3 | 0.3 | 0.4 | 0.3 | 0.4 |     | 0.4         |
| Rosy RF             |       |     | 0.3 | 0.3 | 0.3 | 0.4 | 0.3 | 0.4 | 0.4 | 0.7 | 0.4         |
| Tiger RF            |       | 1.9 | 1.9 | 1.1 | 1.3 | 1.1 | 1.3 | 1.2 | 1.4 | 1.2 | 1.2         |
| Silvergray RF       |       |     |     |     | 1.5 |     |     | 1.6 | 1.8 |     | 1.6         |
| Vermilion RF        |       | 1.7 | 1.8 | 1.5 | 1.6 | 1.7 | 2.0 | 1.9 | 1.8 |     | 1.8         |
| Widow RF            |       | 0.4 | 0.6 | 0.9 | 1.0 | 1.0 | 0.9 | 1.2 | 0.8 |     | 1.0         |
| Yellowmouth RF      |       |     |     |     | 2.2 |     |     |     |     |     | 2.2         |
| Sand Sole           |       | 0.8 | 0.3 | 0.4 | 0.2 |     | 0.4 | 0.8 |     |     | 0.5         |
| Starry Flounder     |       | 0.3 |     |     |     |     |     | 1.4 | 1.3 |     | 1.1         |
| California Halibut  |       |     |     |     |     |     | 0.6 | 1.6 |     |     | 1.1         |
| Pacific Sanddab     |       |     |     |     |     |     |     | 0.2 | 0.2 |     | 0.2         |
| Butter Sole         |       |     | 0.3 |     |     |     |     |     |     |     | 0.3         |
| Petrals Sole        |       |     |     |     |     |     |     |     | 0.5 |     | 0.5         |
| Rock Sole           |       |     |     |     |     |     |     |     | 0.6 |     | 0.6         |
| Arrowtooth Flounder |       |     |     |     | 1.8 |     |     | 2.1 |     |     | 2.0         |
| Lingcod             | 3.3   | 3.5 | 3.5 | 3.6 | 3.9 | 3.9 | 4.1 | 4.2 | 4.2 | 4.0 | 3.9         |
| Kelp Greenling      | 0.7   | 0.7 | 0.7 | 0.7 | 0.7 | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7         |
| Rock Greenling      |       |     |     |     | 0.7 | 0.7 |     | 0.3 |     |     | 0.6         |
| Cabezon             | 1.9   | 2.5 | 2.0 | 2.1 | 2.2 | 2.3 | 2.2 | 2.0 | 2.2 | 1.8 | 2.2         |
| Red Irish Lord      |       |     | 1.4 | 1.2 | 1.1 |     | 0.8 | 0.9 | 1.5 |     | 1.1         |
| Buffalo Sculpin     |       |     | 1.0 |     | 0.4 |     | 0.7 |     |     | 0.8 | 0.7         |
| Blue shark          |       |     |     |     |     | 4.2 | 3.4 |     | 6.7 |     | 4.8         |
| Jack Mackerel       |       |     |     |     |     |     | 1.7 |     |     |     | 1.7         |
| Pacific Markerel    |       |     |     |     |     | 0.4 |     |     |     |     | 0.4         |
| Pacific Whiting     |       |     |     |     |     |     |     | 1.0 |     |     | 1.0         |
| Sablefish           |       |     |     |     | 2.4 |     |     | 4.5 | 4.6 |     | 4.5         |
| Wolf Eel            |       |     |     |     | 3.8 |     | 3.4 |     |     |     | 3.5         |
| Jack Smelt          |       |     |     |     |     | 0.1 |     |     |     |     | 0.1         |
| Coho salmon         |       |     |     |     |     | 2.2 | 2.6 | 2.8 |     |     | 2.5         |
| Redtail Surfperch   |       |     |     |     |     |     |     | 1.3 |     |     | 1.3         |
| Silver Surfperch    |       |     |     |     |     |     | 0.4 |     |     |     | 0.4         |
| Striped Surfperch   |       |     |     |     | 0.6 |     |     | 0.7 | 0.8 |     | 0.7         |

RF = rockfish

Table 11. Number of fish sampled for average weight and length in the Oregon ocean boat recreational fishery during 2001.

| Species             | Month |     |     |     |      |      |      |      |      |     | Total |
|---------------------|-------|-----|-----|-----|------|------|------|------|------|-----|-------|
|                     | Jan   | Feb | Mar | Apr | May  | Jun  | Jul  | Aug  | Sep  | Oct |       |
| Black RF            | 152   | 245 | 161 | 294 | 451  | 431  | 410  | 856  | 375  | 46  | 3421  |
| Blue RF             | 120   | 155 | 106 | 97  | 145  | 183  | 216  | 512  | 228  | 32  | 1794  |
| Yelloweye RF        | 5     | 20  | 8   | 23  | 61   | 76   | 52   | 112  | 62   | 3   | 422   |
| Canary RF           | 26    | 116 | 69  | 73  | 194  | 158  | 203  | 262  | 179  | 12  | 1292  |
| China RF            | 4     | 21  | 15  | 36  | 34   | 72   | 97   | 99   | 67   | 7   | 452   |
| Yellowtail RF       | 6     | 21  | 31  | 37  | 96   | 111  | 82   | 237  | 125  | 23  | 769   |
| Copper RF           | 5     | 11  | 16  | 24  | 38   | 47   | 33   | 40   | 42   | 1   | 257   |
| Quillback RF        | 3     | 37  | 23  | 34  | 61   | 52   | 83   | 85   | 39   | 1   | 418   |
| Bocaccio RF         |       |     |     | 1   | 13   | 6    | 12   | 7    | 9    |     | 48    |
| Brown RF            |       |     |     |     |      | 21   | 11   |      |      |     | 32    |
| Chillipepper RF     |       |     |     |     |      |      |      | 8    |      |     | 8     |
| Greenstriped RF     |       |     |     |     | 13   | 1    | 1    | 36   | 28   | 2   | 81    |
| Grass RF            |       |     | 1   |     | 2    | 1    | 2    | 1    |      |     | 7     |
| Redbanded RF        |       |     |     |     | 1    | 1    |      | 2    |      |     | 4     |
| Redstripe RF        |       |     |     | 4   | 4    | 2    | 13   | 26   | 13   |     | 62    |
| Rosethorn RF        |       |     |     |     | 6    | 4    | 6    | 10   | 37   |     | 63    |
| Rosy RF             |       |     | 1   | 3   | 3    | 7    | 6    | 43   | 39   | 1   | 103   |
| Tiger RF            |       | 2   | 1   | 4   | 3    | 15   | 22   | 35   | 10   | 1   | 93    |
| Silvergray RF       |       |     |     |     | 2    |      |      | 4    | 3    |     | 9     |
| Vermilion RF        |       | 14  | 16  | 19  | 37   | 63   | 60   | 39   | 25   |     | 273   |
| Widow RF            |       | 1   | 10  | 2   | 2    | 29   | 47   | 107  | 32   |     | 230   |
| Yellowmouth RF      |       |     |     |     | 1    |      |      |      |      |     | 1     |
| Pacific halibut     |       |     |     |     | 2973 | 148  | 9    | 1276 | 642  |     | 5048  |
| Sand Sole           |       | 2   | 2   | 2   | 2    |      | 4    | 1    |      |     | 13    |
| Starry Flounder     |       | 1   |     |     |      |      |      | 2    | 1    |     | 4     |
| California Halibut  |       |     |     |     |      |      | 1    | 1    |      |     | 2     |
| Pacific Sanddab     |       |     |     |     |      |      |      | 7    | 14   |     | 21    |
| Butter Sole         |       |     | 1   |     |      |      |      |      |      |     | 1     |
| Petrale Sole        |       |     |     |     |      |      |      |      | 3    |     | 3     |
| Rock Sole           |       |     |     |     |      |      |      |      | 1    |     | 1     |
| Arrowtooth Flounder |       |     |     |     | 1    |      |      | 2    |      |     | 3     |
| Lingcod             | 38    | 109 | 167 | 170 | 271  | 283  | 329  | 309  | 207  | 70  | 1953  |
| Kelp Greenling      | 12    | 34  | 27  | 63  | 76   | 104  | 67   | 148  | 102  | 9   | 642   |
| Rock Greenling      |       |     |     |     | 1    | 3    |      | 1    |      |     | 5     |
| Cabezon             | 10    | 34  | 29  | 101 | 91   | 103  | 93   | 136  | 85   | 9   | 691   |
| Red Irish Lord      |       |     | 1   | 2   | 1    |      | 3    | 2    | 3    |     | 12    |
| Buffalo Sculpin     |       |     | 1   |     | 1    |      | 1    |      |      | 1   | 4     |
| Blue shark          |       |     |     |     |      | 1    | 1    |      | 1    |     | 3     |
| Jack Mackerel       |       |     |     |     |      |      | 1    |      |      |     | 1     |
| Pacific Markerel    |       |     |     |     |      | 1    |      |      |      |     | 1     |
| Pacific Whiting     |       |     |     |     |      |      |      | 1    |      |     | 1     |
| Sablefish           |       |     |     |     | 1    |      |      | 34   | 14   |     | 49    |
| Wolf Eel            |       |     |     |     | 1    |      | 2    |      |      |     | 3     |
| Jack Smelt          |       |     |     |     |      | 1    |      |      |      |     | 1     |
| Coho salmon         |       |     |     |     |      | 287  | 564  | 10   |      |     | 861   |
| Redtail Surfperch   |       |     |     |     |      |      |      | 1    |      |     | 1     |
| Silver Surfperch    |       |     |     |     |      |      | 1    |      |      |     | 1     |
| Striped Surfperch   |       |     |     |     | 3    |      |      | 3    | 1    |     | 7     |
| Grand Total         | 381   | 823 | 686 | 989 | 4589 | 2211 | 2432 | 4455 | 2387 | 218 | 19171 |

RF = rockfish

Table 12: Age distribution by Surfperch species sampled from the southern Oregon recreational fishery in 2000.

| Age   | Number of Fish |      |        |      |         |      |        |      |        |      |        |      |         |      |    |    |    |    |
|-------|----------------|------|--------|------|---------|------|--------|------|--------|------|--------|------|---------|------|----|----|----|----|
|       | Redtail        |      | White  |      | Striped |      | Pile   |      | Silver |      | Calico |      | Walleye |      |    |    |    |    |
|       | Female         | Male | Female | Male | Female  | Male | Female | Male | Female | Male | Female | Male | Female  | Male |    |    |    |    |
| 1     |                |      |        |      |         |      |        |      |        |      |        |      | 1       | 1    |    |    |    |    |
| 2     | 32             | 30   | 1      | 1    | 8       | 7    | 15     |      |        | 1    | 1      |      |         | 4    |    |    |    |    |
| 3     | 616            | 179  | 41     | 8    | 22      | 10   | 32     | 5    | 2      | 2    | 2      | 3    | 3       | 13   |    |    |    |    |
| 4     | 280            | 156  | 59     | 24   | 11      | 6    | 17     | 13   |        |      |        | 3    | 1       | 4    |    |    |    |    |
| 5     | 172            | 104  | 16     | 15   | 2       | 2    | 4      | 21   | 2      | 4    | 4      | 2    | 1       | 3    |    |    |    |    |
| 6     | 108            | 72   | 7      | 5    | 1       |      | 1      | 15   | 1      | 1    | 1      |      | 2       | 2    |    |    |    |    |
| 7     | 60             | 44   |        | 2    | 1       |      | 1      | 9    | 1      |      |        |      |         |      |    |    |    |    |
| 8     | 15             | 16   | 1      |      |         | 1    | 1      | 1    |        |      |        |      |         | 3    |    |    |    |    |
| 9     | 15             | 4    |        |      |         |      |        | 1    | 1      |      |        |      |         |      |    |    |    |    |
| 10    | 1              | 3    | 1      |      |         |      | 1      | 1    |        |      |        |      |         |      |    |    |    |    |
| 12    | 1              |      |        |      |         |      |        |      |        |      |        |      |         |      |    |    |    |    |
| 13    | 1              |      |        |      |         |      |        |      |        |      |        |      |         |      |    |    |    |    |
| Total | 1301           | 608  | 126    | 55   | 45      | 26   | 71     | 66   | 6      | 72   | 6      | 8    | 8       | 4    | 12 | 27 | 31 | 58 |

|             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Average Age | 4.0 | 4.4 | 4.2 | 4.0 | 4.4 | 4.1 | 3.3 | 3.3 | 3.3 | 5.3 | 4.8 | 5.3 | 4.3 | 4.0 | 4.3 | 3.9 | 5.3 | 4.3 | 3.5 | 4.7 | 4.1 |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

Table 13: Length distribution by Surfperch species sampled from the southern Oregon recreational fishery in 2000.

| ForkLength<br>in mm | Redtail     |            | White       |            | Striped   |            | Pile      |           | Silver    |           | Calico   |           | Walleye  |          |           |           |           |           |
|---------------------|-------------|------------|-------------|------------|-----------|------------|-----------|-----------|-----------|-----------|----------|-----------|----------|----------|-----------|-----------|-----------|-----------|
|                     | Female      | Male       | Female      | Male       | Female    | Male       | Female    | Male      | Female    | Male      | Female   | Male      | Female   | Male     |           |           |           |           |
|                     | Total       | Total      | Total       | Total      | Total     | Total      | Total     | Total     | Total     | Total     | Total    | Total     | Total    | Total    |           |           |           |           |
| 160-170             | 2           | 2          |             |            |           |            |           |           |           |           |          |           |          |          |           |           |           |           |
| 170-180             | 3           | 2          |             |            |           |            |           |           | 1         |           |          |           |          |          |           |           |           |           |
| 180-190             | 3           | 3          |             |            |           |            |           |           | 2         |           |          |           |          |          |           |           |           |           |
| 190-200             | 1           | 1          | 1           |            |           |            |           |           |           |           |          |           | 1        |          |           |           |           |           |
| 200-210             | 3           | 6          | 9           |            |           |            |           |           | 2         |           |          |           | 5        |          |           |           |           |           |
| 210-220             | 6           | 82         | 88          | 10         | 4         | 14         | 3         | 2         | 1         | 1         | 1        | 3         | 14       | 12       |           |           |           |           |
| 220-230             | 29          | 86         | 115         | 31         | 6         | 37         | 6         | 4         | 1         | 1         | 2        | 2         | 5        | 11       |           |           |           |           |
| 230-240             | 113         | 43         | 156         | 47         | 14        | 61         | 5         | 6         | 1         | 1         | 2        | 2         | 5        | 16       |           |           |           |           |
| 240-250             | 165         | 80         | 245         | 24         | 16        | 40         | 7         | 2         | 2         |           | 2        | 2         | 5        | 3        |           |           |           |           |
| 250-260             | 185         | 88         | 273         | 13         | 10        | 23         | 5         | 5         | 1         | 1         | 1        | 1         | 1        | 1        |           |           |           |           |
| 260-270             | 146         | 87         | 233         | 14         | 5         | 19         | 11        | 2         | 5         | 1         | 2        | 3         | 1        |          |           |           |           |           |
| 270-280             | 101         | 61         | 162         | 5          |           | 5          | 4         | 2         | 8         | 2         | 10       | 1         |          |          |           |           |           |           |
| 280-290             | 134         | 50         | 184         |            |           |            | 1         | 2         | 8         | 1         | 9        |           |          |          |           |           |           |           |
| 290-300             | 106         | 18         | 124         |            |           |            | 8         | 1         | 8         |           | 8        |           |          |          |           |           |           |           |
| 300-310             | 100         | 2          | 102         |            |           |            | 12        | 1         | 13        |           | 13       |           |          |          |           |           |           |           |
| 310-320             | 77          | 4          | 81          |            |           |            | 11        |           | 11        |           | 11       |           |          |          |           |           |           |           |
| 320-330             | 70          |            | 70          |            |           |            | 4         |           | 4         |           | 4        |           |          |          |           |           |           |           |
| 330-340             | 33          |            | 33          |            |           |            | 4         |           | 4         |           | 4        |           |          |          |           |           |           |           |
| 340-350             | 18          |            | 18          |            |           |            | 3         |           | 3         |           | 3        |           |          |          |           |           |           |           |
| 350-360             | 9           |            | 9           |            |           |            |           |           |           |           |          |           |          |          |           |           |           |           |
| 360-370             | 1           | 1          | 2           |            |           |            |           |           |           |           |          |           |          |          |           |           |           |           |
| 380-390             | 1           |            | 1           |            |           |            |           |           |           |           |          |           |          |          |           |           |           |           |
| 400-410             | 1           |            | 1           |            |           |            |           |           |           |           |          |           |          |          |           |           |           |           |
| <b>Total</b>        | <b>1307</b> | <b>610</b> | <b>1917</b> | <b>145</b> | <b>55</b> | <b>200</b> | <b>45</b> | <b>26</b> | <b>71</b> | <b>66</b> | <b>6</b> | <b>72</b> | <b>8</b> | <b>4</b> | <b>12</b> | <b>31</b> | <b>31</b> | <b>62</b> |

|                       |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Average Length</b> | <b>274</b> | <b>249</b> | <b>266</b> | <b>238</b> | <b>240</b> | <b>239</b> | <b>251</b> | <b>247</b> | <b>250</b> | <b>297</b> | <b>268</b> | <b>295</b> | <b>199</b> | <b>196</b> | <b>198</b> | <b>232</b> | <b>241</b> | <b>235</b> | <b>217</b> | <b>218</b> | <b>217</b> |
|-----------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|

Table 14. Length distribution of Pacific halibut sampled from the Oregon recreational fishery by port in 2001.

| Length in millimeters | Number of Fish |              |            |             |            |            |             | Total       |
|-----------------------|----------------|--------------|------------|-------------|------------|------------|-------------|-------------|
|                       | Garibaldi      | Pacific City | Depoe Bay  | Newport     | Charleston | Bandon     | Port Orford |             |
| 675-700               |                |              |            | 2           |            |            |             | 2           |
| 750-775               |                |              |            | 3           |            |            |             | 3           |
| 775-800               | 1              |              |            | 4           | 1          | 3          |             | 9           |
| 800-825               | 30             |              | 12         | 52          | 26         | 8          | 3           | 131         |
| 825-850               | 70             | 1            | 23         | 102         | 30         | 8          | 5           | 239         |
| 850-875               | 95             | 2            | 49         | 150         | 31         | 5          | 3           | 335         |
| 875-900               | 101            |              | 45         | 153         | 31         | 9          | 5           | 344         |
| 900-925               | 142            | 1            | 38         | 174         | 39         | 8          | 3           | 405         |
| 925-950               | 140            | 1            | 42         | 144         | 30         | 6          | 4           | 367         |
| 950-975               | 137            |              | 42         | 160         | 31         | 3          | 4           | 377         |
| 975-1000              | 116            |              | 45         | 167         | 34         | 5          | 5           | 372         |
| 1000-1025             | 106            | 1            | 34         | 141         | 28         | 13         | 3           | 326         |
| 1025-1050             | 106            |              | 29         | 118         | 29         | 4          | 2           | 288         |
| 1050-1075             | 93             | 1            | 39         | 128         | 22         | 1          | 5           | 289         |
| 1075-1100             | 103            | 1            | 29         | 108         | 27         | 6          | 3           | 277         |
| 1100-1125             | 79             |              | 42         | 131         | 20         | 5          | 7           | 284         |
| 1125-1150             | 72             |              | 32         | 69          | 11         | 4          | 6           | 194         |
| 1150-1175             | 54             | 1            | 27         | 75          | 12         | 2          | 6           | 177         |
| 1175-1200             | 49             |              | 26         | 52          | 15         | 3          | 1           | 146         |
| 1200-1225             | 25             |              | 14         | 68          | 19         | 13         |             | 139         |
| 1225-1250             | 26             |              | 14         | 54          | 13         | 1          | 2           | 110         |
| 1250-1275             | 12             |              | 9          | 39          | 13         | 4          |             | 77          |
| 1275-1300             | 7              |              | 6          | 30          | 11         | 3          | 2           | 59          |
| 1300-1325             | 2              |              | 5          | 19          | 8          | 1          | 1           | 36          |
| 1325-1350             | 3              |              |            | 13          | 2          | 2          |             | 20          |
| 1350-1375             | 3              |              |            | 10          | 2          | 1          |             | 16          |
| 1375-1400             |                |              |            | 4           | 1          |            | 1           | 6           |
| 1400-1425             | 1              | 1            |            | 6           | 1          |            |             | 9           |
| 1425-1450             |                | 1            |            | 1           | 1          |            |             | 3           |
| 1450-1475             |                |              |            | 3           |            |            |             | 3           |
| 1475-1500             |                |              |            |             | 2          |            |             | 2           |
| 1500-1525             |                |              |            |             | 1          |            |             | 1           |
| 1550-1575             |                |              |            | 1           |            |            |             | 1           |
| 1875-1900             |                |              |            |             |            | 1          |             | 1           |
| <b>Grand Total</b>    | <b>1573</b>    | <b>11</b>    | <b>602</b> | <b>2181</b> | <b>491</b> | <b>119</b> | <b>71</b>   | <b>5048</b> |

**Table15. Age distribution of lingcod sub-sampled from samples collected from the Columbia and Eureka management areas in the Oregon recreational fishery in 2000.**

| Age                | Columbia Area |            |            | Eureka Area |            |            | Total      |            |            |
|--------------------|---------------|------------|------------|-------------|------------|------------|------------|------------|------------|
|                    | Male          | Female     | Total      | Male        | Female     | Total      | Male       | Female     | Total      |
| 3                  | 2             | 4          | 6          | 2           | 2          | 4          | 4          | 6          | 10         |
| 4                  | 21            | 20         | 41         | 26          | 25         | 51         | 47         | 45         | 92         |
| 5                  | 96            | 53         | 149        | 71          | 65         | 136        | 167        | 118        | 285        |
| 6                  | 61            | 40         | 101        | 58          | 49         | 107        | 119        | 89         | 208        |
| 7                  | 28            | 36         | 64         | 33          | 22         | 55         | 61         | 58         | 119        |
| 8                  | 14            | 15         | 29         | 20          | 11         | 31         | 34         | 26         | 60         |
| 9                  | 4             | 7          | 11         | 9           | 4          | 13         | 13         | 11         | 24         |
| 10                 |               |            |            | 3           |            | 3          | 3          |            | 3          |
| 11                 |               |            |            | 1           |            | 1          | 1          |            | 1          |
| 12                 |               |            |            | 1           |            | 1          | 1          |            | 1          |
| <b>Total</b>       | <b>226</b>    | <b>175</b> | <b>401</b> | <b>224</b>  | <b>178</b> | <b>402</b> | <b>450</b> | <b>353</b> | <b>803</b> |
| <b>Average Age</b> | <b>5.7</b>    | <b>5.9</b> | <b>5.8</b> | <b>6.0</b>  | <b>5.6</b> | <b>5.8</b> | <b>5.8</b> | <b>5.7</b> | <b>5.8</b> |

Table 16. Length distribution of lingcod sub-sampled from samples collected from the Columbia and Eureka management areas in the Oregon recreational fishery in 2000.

| Fork Length (mm)      | Number of Fish |            |            |             |            |            |            |            |            |
|-----------------------|----------------|------------|------------|-------------|------------|------------|------------|------------|------------|
|                       | Columbia Area  |            |            | Eureka Area |            |            | Total      |            |            |
|                       | Male           | Female     | Total      | Male        | Female     | Total      | Male       | Female     | Total      |
| less than 559         | 1              |            | 1          | 2           |            | 2          | 3          |            | 3          |
| 560-569               | 2              |            | 2          |             |            |            | 2          |            | 2          |
| 570-579               |                |            |            |             |            |            |            |            |            |
| 580-589               |                |            |            | 1           |            | 1          | 1          |            | 1          |
| 590-599               | 2              | 1          | 3          | 2           |            | 2          | 5          | 1          | 5          |
| 600-609               | 8              | 7          | 15         | 2           | 3          | 5          | 17         | 10         | 20         |
| 610-619               | 32             | 2          | 34         | 11          | 6          | 17         | 45         | 8          | 51         |
| 620-629               | 29             | 5          | 34         | 12          | 9          | 21         | 46         | 14         | 55         |
| 630-639               | 22             | 4          | 26         | 8           | 2          | 10         | 34         | 6          | 36         |
| 640-649               | 21             | 6          | 27         | 16          | 5          | 21         | 43         | 11         | 48         |
| 650-659               | 15             | 10         | 25         | 25          | 9          | 34         | 50         | 19         | 59         |
| 660-669               | 16             | 7          | 23         | 10          | 6          | 16         | 33         | 13         | 39         |
| 670-679               | 18             | 7          | 25         | 18          | 10         | 28         | 43         | 17         | 53         |
| 680-689               | 7              | 12         | 19         | 17          | 8          | 25         | 36         | 20         | 44         |
| 690-699               | 10             | 14         | 24         | 21          | 16         | 37         | 45         | 30         | 61         |
| 700-709               | 10             | 8          | 18         | 9           | 9          | 18         | 27         | 17         | 36         |
| 710-719               | 12             | 11         | 23         | 4           | 5          | 9          | 27         | 16         | 32         |
| 720-729               | 3              | 6          | 9          | 10          | 12         | 22         | 19         | 18         | 31         |
| 730-739               | 2              | 10         | 12         | 7           | 6          | 13         | 19         | 16         | 25         |
| 740-749               | 3              | 6          | 9          | 7           | 14         | 21         | 16         | 20         | 30         |
| 750-759               | 2              | 3          | 5          | 10          | 6          | 16         | 15         | 9          | 21         |
| 760-769               | 2              | 8          | 10         | 8           | 7          | 15         | 18         | 15         | 25         |
| 770-779               | 1              | 6          | 7          | 7           | 8          | 15         | 14         | 14         | 22         |
| 780-789               | 2              | 5          | 7          | 3           | 8          | 11         | 10         | 13         | 18         |
| 790-799               | 2              | 3          | 5          | 1           | 8          | 9          | 6          | 11         | 14         |
| 800-809               | 1              | 7          | 8          | 2           | 2          | 4          | 10         | 9          | 12         |
| 810-819               |                | 5          | 5          | 2           | 4          | 6          | 7          | 9          | 11         |
| 820-829               |                | 1          | 1          | 2           | 3          | 5          | 3          | 4          | 6          |
| 830-839               | 2              | 7          | 9          | 2           | 5          | 7          | 11         | 12         | 16         |
| 840-849               |                | 2          | 2          | 3           | 1          | 4          | 5          | 3          | 6          |
| 850-859               |                | 5          | 5          | 1           | 2          | 3          | 6          | 7          | 8          |
| 860-869               | 1              | 3          | 4          |             | 2          | 2          | 4          | 5          | 6          |
| 870-879               |                | 3          | 3          |             |            |            | 3          | 3          | 3          |
| 880-889               |                | 2          | 2          | 1           | 1          | 2          | 3          | 3          | 4          |
| 890-899               |                |            |            |             |            |            |            |            |            |
| 900-909               |                |            |            |             | 1          | 1          |            | 1          | 1          |
| <b>Total</b>          | <b>226</b>     | <b>176</b> | <b>402</b> | <b>224</b>  | <b>178</b> | <b>402</b> | <b>626</b> | <b>354</b> | <b>804</b> |
| <b>Average Length</b> | <b>651</b>     | <b>718</b> | <b>680</b> | <b>681</b>  | <b>714</b> | <b>695</b> | <b>666</b> | <b>716</b> | <b>688</b> |

Table 17. Estimated landings of non-salmonid finfish by species and month from the 2000 Oregon ocean boat recreational fishery (in numbers of fish)

| Species name        | January | February | March | April | May   | June  | July  | August | September | October | November | December | Total  |
|---------------------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|---------|----------|----------|--------|
| Albacore Tuna       | 0       | 0        | 0     | 1     | 0     | 0     | 126   | 2147   | 1193      | 5       | 0        | 0        | 3472   |
| Arrowtooth Flounder | 0       | 0        | 0     | 0     | 11    | 2     | 0     | 3      | 0         | 0       | 0        | 0        | 16     |
| Big Skate           | 0       | 0        | 0     | 0     | 0     | 0     | 0     | 2      | 0         | 0       | 0        | 0        | 2      |
| Black RF            | 1921    | 4465     | 12761 | 26715 | 38110 | 49476 | 74798 | 76045  | 36526     | 12632   | 5610     | 4992     | 344051 |
| Blue RF             | 1007    | 2300     | 5363  | 5810  | 9853  | 8985  | 6120  | 14842  | 5194      | 2825    | 3012     | 2153     | 67464  |
| Blue Shark          | 0       | 0        | 0     | 1     | 3     | 1     | 6     | 22     | 1         | 0       | 0        | 0        | 34     |
| Bocaccio RF         | 1       | 2        | 19    | 4     | 292   | 15    | 49    | 46     | 9         | 5       | 1        | 2        | 445    |
| Brown RF            | 61      | 0        | 0     | 0     | 0     | 4     | 0     | 0      | 0         | 0       | 0        | 0        | 65     |
| Buffalo Sculpin     | 0       | 0        | 0     | 2     | 0     | 0     | 2     | 2      | 0         | 0       | 0        | 0        | 6      |
| Butter Sole         | 0       | 0        | 0     | 0     | 0     | 0     | 0     | 0      | 2         | 0       | 0        | 0        | 2      |
| Cabezon             | 74      | 182      | 228   | 499   | 963   | 1456  | 1602  | 1597   | 541       | 178     | 59       | 133      | 7512   |
| California Halibut  | 0       | 0        | 0     | 0     | 0     | 4     | 5     | 0      | 0         | 0       | 0        | 0        | 9      |
| Canary RF           | 153     | 522      | 671   | 998   | 2667  | 2872  | 2843  | 6844   | 1804      | 513     | 160      | 315      | 20362  |
| Chilipepper RF      | 0       | 3        | 0     | 0     | 5     | 0     | 0     | 0      | 0         | 0       | 0        | 0        | 8      |
| China RF            | 21      | 106      | 70    | 255   | 458   | 749   | 795   | 1064   | 409       | 145     | 67       | 59       | 4198   |
| Copper RF           | 21      | 91       | 78    | 169   | 560   | 544   | 461   | 788    | 257       | 46      | 38       | 49       | 3102   |
| Dover Sole          | 0       | 0        | 0     | 0     | 2     | 0     | 0     | 0      | 0         | 0       | 0        | 0        | 2      |
| Flatfish Species    | 0       | 0        | 0     | 1     | 0     | 0     | 9     | 2      | 0         | 0       | 0        | 0        | 12     |
| Grass RF            | 0       | 0        | 0     | 2     | 0     | 4     | 0     | 0      | 2         | 0       | 0        | 0        | 8      |
| Greenspotted RF     | 0       | 0        | 1     | 0     | 4     | 0     | 0     | 20     | 0         | 0       | 0        | 0        | 25     |
| Greenstriped RF     | 3       | 6        | 21    | 78    | 494   | 157   | 114   | 99     | 35        | 3       | 3        | 6        | 1019   |
| Jack Mackerel       | 0       | 0        | 0     | 0     | 0     | 0     | 3     | 0      | 0         | 0       | 0        | 0        | 3      |
| Jack Smelt          | 0       | 0        | 0     | 0     | 0     | 0     | 27    | 0      | 0         | 0       | 0        | 0        | 27     |
| Kelp Greenling      | 111     | 224      | 346   | 546   | 917   | 1780  | 1457  | 1904   | 752       | 246     | 63       | 152      | 8498   |
| Ling Cod            | 131     | 533      | 554   | 1158  | 2874  | 2788  | 2304  | 2676   | 1334      | 431     | 237      | 328      | 15348  |
| Longnose Skate      | 0       | 0        | 0     | 0     | 22    | 0     | 2     | 0      | 0         | 0       | 0        | 0        | 24     |
| Misc. Fish Species  | 0       | 0        | 0     | 2     | 2     | 0     | 0     | 0      | 0         | 0       | 0        | 0        | 4      |
| Pacific Halibut     | 0       | 0        | 0     | 0     | 5706  | 30    | 66    | 82     | 308       | 0       | 0        | 0        | 6192   |
| Pacific Mackerel    | 1       | 1        | 5     | 0     | 0     | 2     | 5     | 101    | 0         | 0       | 1        | 1        | 117    |
| Pacific Ocean Perch | 0       | 0        | 0     | 0     | 0     | 3     | 0     | 0      | 0         | 0       | 0        | 0        | 3      |
| Pacific Sanddab     | 0       | 0        | 0     | 0     | 3     | 1     | 406   | 40     | 77        | 0       | 0        | 0        | 527    |
| Pacific Whiting     | 0       | 0        | 0     | 0     | 3     | 0     | 17    | 0      | 0         | 1       | 0        | 0        | 21     |
| Petrale Sole        | 0       | 0        | 6     | 1     | 18    | 0     | 4     | 9      | 6         | 0       | 0        | 0        | 44     |
| Quillback RF        | 21      | 91       | 116   | 100   | 510   | 705   | 511   | 1093   | 263       | 84      | 51       | 39       | 3584   |
| Ratfish             | 0       | 0        | 0     | 0     | 1     | 0     | 1     | 0      | 0         | 0       | 0        | 0        | 2      |
| Red Irish Lord      | 0       | 0        | 0     | 5     | 3     | 4     | 10    | 8      | 2         | 0       | 0        | 0        | 32     |
| Redbanded RF        | 0       | 0        | 0     | 0     | 20    | 3     | 0     | 5      | 0         | 0       | 0        | 0        | 28     |
| Redstripe RF        | 0       | 1        | 3     | 6     | 10    | 2     | 17    | 46     | 25        | 14      | 0        | 1        | 125    |
| Redtail Surfperch   | 0       | 0        | 2     | 0     | 0     | 0     | 0     | 3      | 0         | 0       | 0        | 0        | 5      |
| Rock Greenling      | 0       | 0        | 0     | 1     | 7     | 36    | 36    | 57     | 9         | 7       | 6        | 6        | 165    |
| Rock Sole           | 0       | 0        | 0     | 2     | 0     | 0     | 37    | 1      | 2         | 0       | 0        | 0        | 42     |
| Rockfish Species    | 1       | 1        | 2     | 1     | 20    | 2     | 111   | 15     | 0         | 3       | 0        | 2        | 158    |
| Rosethorn RF        | 2       | 4        | 16    | 12    | 87    | 25    | 93    | 138    | 60        | 16      | 2        | 4        | 459    |
| Rosy RF             | 0       | 0        | 6     | 24    | 161   | 45    | 43    | 96     | 25        | 0       | 0        | 0        | 400    |
| Sablefish           | 0       | 0        | 0     | 2     | 97    | 4     | 13    | 9      | 5         | 1       | 0        | 0        | 131    |
| Sand Sole           | 1       | 4        | 4     | 19    | 18    | 106   | 60    | 38     | 266       | 3       | 0        | 0        | 519    |
| Sculpin Species     | 11      | 0        | 0     | 0     | 0     | 0     | 0     | 3      | 0         | 0       | 0        | 0        | 14     |
| Silvergrey RF       | 1       | 0        | 0     | 0     | 43    | 13    | 19    | 8      | 4         | 0       | 0        | 0        | 88     |
| Skate Species       | 0       | 0        | 0     | 0     | 1     | 0     | 0     | 0      | 0         | 0       | 0        | 0        | 1      |
| Spiny Dogfish Shark | 0       | 0        | 0     | 0     | 22    | 3     | 4     | 2      | 0         | 0       | 0        | 0        | 31     |
| Starry Flounder     | 0       | 0        | 0     | 4     | 6     | 7     | 7     | 20     | 2         | 0       | 0        | 0        | 46     |
| Striped Surfperch   | 0       | 0        | 0     | 1     | 15    | 0     | 4     | 6      | 0         | 1       | 0        | 0        | 27     |
| Surf Perch Species  | 0       | 0        | 0     | 0     | 1     | 0     | 0     | 1      | 4         | 0       | 0        | 0        | 6      |
| Tiger RF            | 2       | 15       | 13    | 39    | 50    | 47    | 98    | 227    | 64        | 11      | 5        | 5        | 576    |
| Vermillion RF       | 7       | 43       | 58    | 139   | 275   | 447   | 568   | 646    | 238       | 62      | 34       | 44       | 2561   |
| Widow RF            | 18      | 36       | 151   | 260   | 314   | 609   | 879   | 1450   | 670       | 68      | 14       | 35       | 4504   |
| Wolf Eel            | 0       | 0        | 0     | 0     | 5     | 3     | 10    | 3      | 2         | 0       | 0        | 0        | 23     |
| Yelloweye RF        | 22      | 141      | 91    | 286   | 1409  | 574   | 670   | 1168   | 506       | 54      | 39       | 59       | 5019   |
| Yellowmouth RF      | 0       | 0        | 0     | 0     | 3     | 0     | 0     | 0      | 34        | 0       | 0        | 0        | 37     |
| Yellowtail RF       | 130     | 290      | 833   | 1169  | 2636  | 3527  | 2992  | 4587   | 3486      | 794     | 118      | 260      | 20822  |
| Grand Total         | 3721    | 9061     | 21418 | 38312 | 68681 | 75035 | 97404 | 117965 | 54117     | 18148   | 9520     | 8645     | 522027 |

RF = rockfish



**Table 18. At-sea disposition of groundfish on Oregon charter vessel bottomfish trawl from July 1 through September 30, 2001.**

| Species          | Number of Fish |          |              |            |
|------------------|----------------|----------|--------------|------------|
|                  | Kept           | Released | Total Caught | % Released |
| Black RF         | 3306           | 44       | 3350         | 1.3        |
| Blue RF          | 583            | 41       | 624          | 6.6        |
| Yelloweye RF     | 32             | 2        | 34           | 5.9        |
| Canary RF        | 134            | 16       | 150          | 10.7       |
| China RF         | 57             | 0        | 57           | 0.0        |
| Yellowtail RF    | 431            | 70       | 501          | 14.0       |
| Copper RF        | 31             | 0        | 31           | 0.0        |
| Quillback RF     | 50             | 0        | 50           | 0.0        |
| Bocaccio RF      | 17             | 0        | 17           | 0.0        |
| Brown RF         | 10             | 0        | 10           | 0.0        |
| Greenstriped RF  | 9              | 0        | 9            | 0.0        |
| Redbanded RF     | 1              | 0        | 1            | 0.0        |
| Rosethorn RF     | 14             | 0        | 14           | 0.0        |
| Rosy RF          | 1              | 0        | 1            | 0.0        |
| Tiger RF         | 13             | 0        | 13           | 0.0        |
| Vermilion RF     | 40             | 0        | 40           | 0.0        |
| Widow RF         | 85             | 0        | 85           | 0.0        |
| Pacific Halibut  | 0              | 7        | 7            | 100.0      |
| Lingcod          | 195            | 347      | 542          | 64.0       |
| Kelp Greenling   | 67             | 1        | 68           | 1.5        |
| Cabezon          | 57             | 3        | 60           | 5.0        |
| Red Irish Lord   | 2              | 4        | 6            | 66.7       |
| Blue shark       | 0              | 1        | 1            | 100.0      |
| Pacific Whiting  | 0              | 9        | 9            | 100.0      |
| Mackerel species | 2              | 4        | 6            | 66.7       |
| Pacific herring  | 0              | 5        | 5            | 100.0      |

RF = rockfish

**Table 19. Age distribution of black rockfish by reef area sampled during 2000 nearshore at-sea research.**

| Age                | Number of Fish |            |            |             |            |            |
|--------------------|----------------|------------|------------|-------------|------------|------------|
|                    | Arago Reef     |            |            | Bandon Reef |            |            |
|                    | Male           | Female     | Total      | Male        | Female     | Total      |
| 3                  | 4              |            | 4          |             |            |            |
| 4                  | 7              | 7          | 14         | 2           | 2          | 4          |
| 5                  | 41             | 35         | 76         | 26          | 21         | 47         |
| 6                  | 81             | 85         | 166        | 62          | 64         | 126        |
| 7                  | 50             | 58         | 108        | 27          | 39         | 66         |
| 8                  | 26             | 37         | 63         | 21          | 33         | 54         |
| 9                  | 22             | 24         | 46         | 15          | 11         | 26         |
| 10                 | 17             | 13         | 30         | 9           | 8          | 17         |
| 11                 | 4              | 12         | 16         | 2           | 5          | 7          |
| 12                 | 4              | 3          | 7          | 2           | 2          | 4          |
| 13                 | 1              |            | 1          | 1           |            | 1          |
| 14                 | 2              | 3          | 5          |             |            |            |
| 15                 | 1              |            | 1          | 1           | 1          | 2          |
| 16                 | 2              | 1          | 3          | 2           |            | 2          |
| 17                 | 2              |            | 2          | 1           |            | 1          |
| 18                 | 1              |            | 1          | 1           | 1          | 2          |
| 19                 | 1              |            | 1          | 2           |            | 2          |
| 20                 |                |            |            | 1           |            | 1          |
| 22                 |                | 1          | 1          |             |            |            |
| 29                 |                |            |            | 2           |            | 2          |
| <b>Total</b>       | <b>266</b>     | <b>279</b> | <b>545</b> | <b>177</b>  | <b>187</b> | <b>364</b> |
| <b>Average Age</b> | <b>7.2</b>     | <b>7.2</b> | <b>7.2</b> | <b>7.6</b>  | <b>7.1</b> | <b>7.3</b> |