

1989

POUNDS AND VALUES

OF FISH AND SHELLFISH
LANDED IN OREGON



oregon department of fish and wildlife

1989

**Pounds and Value
of Commercially Caught Fish and Shellfish
Landed in Oregon**

by

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FOREWORD

The statistics presented in this publication provide information on the amount and value of commercial food fish landings in the State of Oregon in 1989. This information is frequently requested by various government, industry or private user groups for resource management, marketing, land use planning or other needs. We have not attempted to explain management objectives, harvest methods or trends in the commercial fisheries.

The joint efforts of many persons were required to record, process, and review this material. The origin and flow of landings data starts with the commercial fishing industry; specifically the recording of landings information by wholesale fish and bait dealers. Many Oregon Department of Fish and Wildlife personnel assisted in the processing of the recorded data. Data processing specialists prepared landing records for data entry and monitored the timeliness and accuracy of the records, computer programmers developed and maintained the processing programs, data entry personnel entered the record information on the computer data base, and Department management and port biologists helped review the accuracy of the reported information.

The knowledge, expertise and highly conscientious efforts of the Department staff through the years have played a large part in insuring that the Oregon commercial fisheries data base is one of the most accurate and timely data bases (with respect to preliminary information) on the Pacific coast. The efforts of all are greatly appreciated.

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| Pacific City..... | 29 |
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| Siletz Bay | 30 |
| Depoe Bay..... | 31 |
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| Waldport..... | 34 |
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| Garibaldi..... | 94 |
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| Salmon River..... | 98 |
| Siletz Bay | 98 |
| Depoe Bay..... | 99 |
| Newport | 100 |
| Waldport..... | 102 |
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EXPLANATION OF TABLES

Source of Data

Oregon law requires commercial fishers to sell their catch to a licensed wholesale fish or bait dealer. At time of sale, the dealer must record certain information on a Fish Receiving Ticket form supplied by the Department. This information includes date of landing, port of landing, gear used to take the fish or shellfish, pounds landed by species and price per pound paid to the fisher. The fish tickets are returned to the Department and edited by staff specialists and management biologists for accuracy and completeness prior to final tabulation.

Landings

Commercial landings are reported for the Columbia River (Oregon landings only), ports along the coast (Fig. 1), and by county for freshwater species (Table 63). Landings at the coastal ports include ocean and bay/estuary-caught fish or shellfish. For ocean-caught species, port of landing does not necessarily indicate general area of catch. Boats can fish coast wide and return to their home port (or any other port) to land their catch.

Landings by month reflect the date of purchase by the dealers. This may not necessarily be the date the fish were caught, as many vessels have the capability of holding fish for extended periods of time before returning to port.

All fish and shellfish landings, unless otherwise indicated, are reported as round (whole) weight. Certain species may be dressed or filleted prior to landing and the following percentages were used to convert these landings to pounds round weight:

| | | |
|--------------------------------|---|--------|
| Halibut, dressed, head-on | + | 15% |
| " dressed, head-off | + | 35% |
| Salmon, troll dressed, head-on | + | 15% |
| Sablefish, dressed, head-off | + | 60% |
| Scallop, shucked | + | 1,220% |
| Pacific Whiting, filleted | + | 235% |

The common and scientific names of species reported in the commercial catch are shown in Table 1. Fish dealers are required to record each species landed; however, this is not always possible due to the difficulty identifying certain species. Some species are combined and reported under a market category, i.e. "Rockfish, other sp." includes several different species of rockfish that are combined and reported only as "rockfish" by the dealers.

Widow rockfish, as reported in 1981 and 1982, were the target species of the newly developed midwater trawl fishery. In 1983 we combined widow rockfish landings from midwater trawls with rockfish landings from bottom trawls after it became apparent that the bottom trawl fishery in that year landed large quantities of widow rockfish reported only as rockfish on the fish ticket. Listing widow rockfish as a single species in the

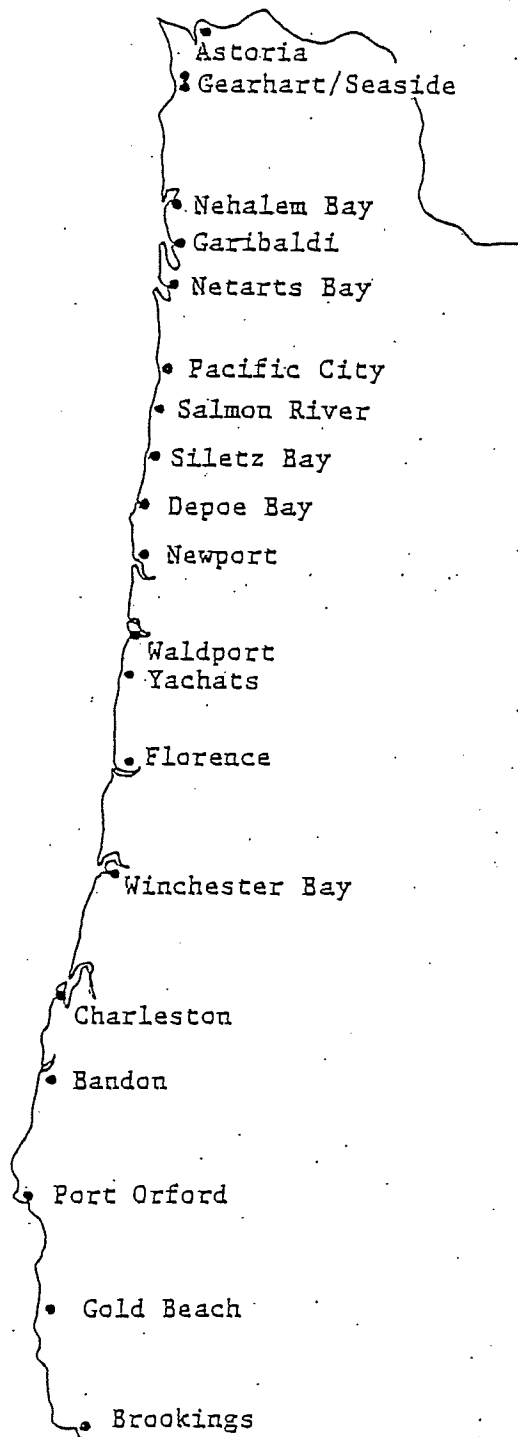


Figure 1. Oregon coastal ports

tables would only represent harvest of this species from midwater trawl gear. In 1984 we asked dealers to report widow rockfish separately on the ticket since they were being sorted at sea and landed separately by the fishers.

Pacific ocean perch (P.O.P.) are more difficult to identify and report accurately because there are several species that are perch-like in appearance. However, P.O.P. is a market category and is reported separately by fish dealers, but in two different ways. In some areas, landings of true Pacific ocean perch are comprised of a very high percentage of true P.O.P. and are subsequently reported on the ticket as P.O.P. In other areas, perch look-alikes are predominant and landings are reported as nominal P.O.P. on the ticket. This category includes a smaller percentage of true P.O.P.

Landings of shortspine and longspine thomyheads are confirmed and reported by their scientific genus name *Sebastes*. Prior to 1984 they were included with miscellaneous rockfish.

The pounds of rockfish listed by species in the tables are as reported on fish tickets by the dealers but the data does not reflect the actual species pounds caught. Each species group and complex has contamination of other rockfish species at the point of landing. Oregon Department of Fish and Wildlife biologists routinely sample these categories of rockfish at the dock to determine species composition for each. This market sample data is applied to the fish ticket data to obtain more accurate estimates of annual landings of rockfish by species. This information is not included in this report, but an annual summary table is available and can be obtained by contacting ODFW.

The trends portrayed in Table 3A (Annual Landings, 1980-1989) are the result of many factors such as regulations, abundance of fish, market demand and technical advances. Most fisheries reflect the effect of all these factors and caution should be used in interpreting or projecting trends.

The private salmon and oyster harvest data in Tables 61, 62, and 64 are included as a matter of interest only and do not reflect fishing activity by commercial fishers.

Commercial fishers catch salmon produced in private hatcheries and this poundage is included in the reported landings of salmon by port and is not listed separately. The data in Tables 61 and 62 reflect only the pounds and numbers of fish returning to the private hatcheries after eluding the commercial and sport fisheries.

The oyster data presented in Table 64 is included as a matter of interest only. There is no Department-managed commercial oyster fishery in Oregon. The data in the table reports oyster plat production by private enterprises using estuarine acreage leased from the State of Oregon.

Value of Catch

Estimates of value are determined from price per pound information obtained from fish tickets and indicate the value of the catch to the fishermen. Where this information is not provided, value is determined by using the best alternative estimate of average price per pound; e.g. from nearby ports during the same time period. Due to computer rounding error, values may vary somewhat, but no significant effect on total value is expected.

Table 2. Type and number of commercial fishing licenses and permits issued, 1980-89

| Type | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 |
|-----------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Albacore tuna landing..... | 134 | 223 | 87 | 105 | 81 | 48 | 51 | 50 | 76 | 55 |
| Bait Fishing..... | 72 | 112 | 91 | 96 | 97 | 106 | 122 | 112 | 127 | 113 |
| Boat..... | 4,928 | 4,575 | 4,231 | 3,966 | 2,078 | 2,982 | 3,072 | 3,109 | 3,529 | 3,508 |
| Individual fishing..... | 8,383 | 8,008 | 7,449 | 6,853 | 3,946 | 5,619 | 6,330 | 7,067 | 7,423 | 7,355 |
| Single Delivery..... | 224 | 196 | 109 | 85 | 113 | 165 | 407 | 678 | 136 | 108 |
| Gillnet permit..... | 571 | 534 | 511 | 475 | 436 | 373 | 370 | 370 | 356 | 356 |
| Scallop permit..... | — | 196 | 164 | 144 | 134 | 113 | 101 | 103 | 104 | 105 |
| Shrimp permit..... | 373 | 295 | 268 | 234 | 209 | 180 | 173 | 181 | 220 | 211 |
| Troll permit..... | 4,311 | 3,926 | 3,646 | 3,439 | 3,203 | 2,993 | 2,739 | 2,626 | 2,597 | 2,574 |
| Urchin permit..... | — | — | — | — | — | — | — | — | 39 | 92 |
| Bait dealers: | | | | | | | | | | |
| Reporting..... | 55 | 77 | 45 | 59 | 67 | 66 | 71 | 62 | 72 | 71 |
| Non-reporting..... | 1/ | 1/ | 8 | 17 | 27 | 34 | 33 | 27 | 27 | 30 |
| Buyer..... | 84 | 121 | 119 | 124 | 78 | 94 | 122 | 150 | 179 | 159 |
| Canner, fish..... | 12 | 8 | 8 | 7 | 7 | 8 | 6 | 7 | 11 | 7 |
| Canner, shellfish..... | 3 | 3 | 3 | 4 | 3 | 2 | 2 | 3 | 4 | 2 |
| Limited fish seller..... | — | — | — | — | — | 2 | 31 | 37 | 57 | 77 |
| Wholesale fish dealer: | | | | | | | | | | |
| Reporting..... | 243 | 229 | 217 | 221 | 180 | 181 | 168 | 168 | 171 | 188 |
| Non-reporting..... | 1/ | 1/ | 12 | 18 | 13 | 14 | 21 | 33 | 30 | 36 |
| Private hatchery..... | 1/ | 1/ | 7 | 8 | 8 | 9 | 7 | 6 | 6 | 6 |
| Boat, lost license..... | 2 | — | 40 | 28 | 11 | 18 | 23 | 30 | 31 | 35 |
| Indiv. fishing, lost license..... | 21 | 10 | 55 | 38 | 11 | 14 | 18 | 26 | 67 | 50 |
| Permit fisheries, lost permit.. | NA | NA | NA | NA | NA | NA | NA | 37 | 28 | 29 |
| Special permit | 129 | 99 | 115 | 103 | 107 | 92 | 73 | 74 | 87 | 59 |
| TOTAL | 19,545 | 18,612 | 17,185 | 16,024 | 10,809 | 13,113 | 13,640 | 14,956 | 15,377 | 15,226 |

1/ Included with reporting
NA - Not Available

TABLE 3A. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) IN OREGON, 1980-1989.

| | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 |
|------------------------|-------------|-------------|-------------|-------------|-------------|----------|----------|----------|----------|----------|
| FISH: | | | | | | | | | | |
| Anchovy, northern..... | 0 | 0 | 200 | 0 | 0 | 31 | 0 | 0 | 26 | 30 |
| Bonito, Pacific..... | 0 | 0 | 0 | 1327 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cabezon..... | 62 | 299 | 142 | 702 | 2512 | 5681 | 10963 | 14051 | 24987 | 14765 |
| Carp..... | 6362 | 0 | 0 | 50 | 0 | 0 | 0 | 11184 | 0 | 0 |
| Cod, Pacific..... | 356522 | 116947 | 260319 | 196644 | 175782 | 85401 | 67789 | 1468747 | 2280678 | 1720551 |
| Flounder, arrowtooth.. | 438774 | 1311268 | 1617209 | 1191733 | 919403 | 1539458 | 1107314 | 1631086 | 1414080 | 2505977 |
| Flounder, starry..... | 426768 | 889441 | 481812 | 432560 | 236979 | 789941 | 215869 | 218867 | 345650 | 443256 |
| Greenling sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 177 | 169 |
| Grenadier..... | 0 | 0 | 0 | 798 | 0 | 0 | 0 | 462 | 46854 | 112981 |
| Hagfish sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25782 | 344187 |
| Halibut, Pacific..... | 3090 | 150397 | 234332 | 579560 | 1055044 | 812822 | 1313777 | 916022 | 582020 | 916024 |
| Herring, Pacific..... | 140723 | 148410 | 144970 | 145915 | 177452 | 163566 | 220300 | 493788 | 355890 | 546391 |
| Irish Lord, brown..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Irish Lord, red..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 |
| Lamprey, Pacific..... | 3233 | 4666 | 39169 | 4482 | 3391 | 6381 | 4740 | 5633 | 10896 | 8366 |
| Lingcod..... | 1664914 | 2308312 | 3216322 | 3831505 | 2345179 | 2321264 | 1444563 | 1590000 | 2223051 | 2591820 |
| Mackerel, Pacific..... | 20 | 26 | 83 | 18253 | 6724 | 13 | 4 | 3229 | 1403 | 10443 |
| Opah..... | 0 | 0 | 0 | 448 | 0 | 0 | 89 | 1727 | 160 | 0 |
| Pikeminnow, northern.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| Pollock, walleye..... | 0 | 0 | 0 | 348 | 880 | 310 | 1523 | 0 | 0 | 47 |
| Pricklebck, monkeyface | 0 | 0 | 0 | 302 | 250 | 0 | 0 | 0 | 0 | 0 |
| Ratfish..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 110 |
| Pacific Ocean perch... | 3614994 1/ | 4350997 1/ | 5508130 1/ | 5192175 1/ | 1576824 | 1554767 | 1385049 | 1048384 | 1403168 | 1557365 |
| Nominal POP..... | 1/ | 1/ | 1/ | 1/ | 1472712 | 2378182 | 2093576 | 2046590 | 2980699 | 3046384 |
| Rockfish, widow..... | 2/ | 31768970 | 19198987 | 2/ | 11635817 | 9535857 | 9435395 | 13963484 | 12009023 | 15236547 |
| Rockfish, yellowtail.. | 2/ | 3/ | 3/ | 2/ | 4/ | 2985880 | 3667900 | 3700306 | 4960998 | 4076729 |
| Rockfish, other sp.... | 35201051 2/ | 18321262 3/ | 22031780 3/ | 30291426 2/ | 12231908 4/ | 10033146 | 7912485 | 10037674 | 9838085 | 11086159 |
| Thornyhead sp..... | 2/ | 3/ | 3/ | 2/ | 1785270 | 2361759 | 1399250 | 1480307 | 2209850 | 5564151 |
| Sablefish..... | 6025841 | 5166328 | 11220816 | 10234762 | 10666025 | 11624342 | 10261789 | 11551671 | 8999796 | 8704848 |

TABLE 3A. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) IN OREGON, 1980-1989. (CONT.)

| | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 |
|------------------------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Salmon, chinook..... | 3953761 | 2439547 | 4353426 | 1286025 | 1758947 | 3856628 | 6477250 | 11484260 | 11742128 | 7610539 |
| Salmon, chum..... | 1824 | 11118 | 13964 | 1100 | 10978 | 3560 | 8287 | 6821 | 14697 | 4164 |
| Salmon, coho..... | 3254208 | 4156458 | 4202605 | 1300301 | 1181919 | 1822162 | 6936483 | 3058328 | 5699853 | 3836619 |
| Salmon, pink..... | 1805 | 372603 | 0 | 269 | 0 | 297433 | 12 | 100463 | 12 | 20295 |
| Salmon, sockeye..... | 0 | 0 | 472 | 2998 | 82495 | 143251 | 14311 | 124037 | 65036 | 59 |
| Sanddab, Pacific..... | 356592 | 293589 | 526000 | 531290 | 614479 | 395496 | 321095 | 468094 | 241914 | 162923 |
| Sculpin, buffalo..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 10 |
| Sculpin, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Shad, American..... | 291414 | 117477 | 435351 | 359719 | 198414 | 140143 | 343154 | 365482 | 393621 | 194516 |
| Shark, sixgill..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 135 |
| Shark, soupfin..... | 1791 | 3585 | 11081 | 13905 | 7784 | 9087 | 7161 | 17743 | 3029 | 3264 |
| Shark, spiny dogfish.. | 56305 | 10608 | 2090 | 2581 | 873 | 290 | 363 | 225 | 1110 | 698 |
| Shark, thresher..... | 0 | 0 | 0 | 0 | 0 | 4184 | 935100 | 203328 | 177548 | 30 |
| Shark, other sp..... | 0 | 1293 | 8213 | 7100 | 696 | 1616 | 1333 | 3645 | 67 | 159 |
| Skates and rays..... | 183673 | 85861 | 63889 | 159640 | 59495 | 11385 | 22767 | 21421 | 4571 | 8319 |
| Smelt (eulachon)..... | 327469 | 23509 | 50704 | 39726 | 5139 | 601175 | 8718 | 0 | 58931 | 19968 |
| Smelt, whitebait..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4512 |
| Smelt, other sp..... | 1293 | 504 | 4642 | 617 | 25412 | 72147 | 27918 | 48725 | 40 | 9686 |
| Sole, butter..... | 26633 | 22463 | 19178 | 12075 | 2252 | 707 | 1034 | 10617 | 691 | 2465 |
| Sole, curlfin (turbot) | 1016 | 5105 | 9793 | 9489 | 6908 | 4518 | 4752 | 9685 | 6328 | 5420 |
| Sole, Dover..... | 9080509 | 11672995 | 17951407 | 18698513 | 13472731 | 12585063 | 10623952 | 13353184 | 16925202 | 19638358 |
| Sole, English..... | 1584178 | 1600095 | 2187335 | 2014645 | 993103 | 1031237 | 1221130 | 1310569 | 1281272 | 1527272 |
| Sole, flathead..... | 7035 | 11111 | 6524 | 17105 | 11854 | 32132 | 5556 | 1311 | 20708 | 7252 |
| Sole, petrale..... | 1890934 | 1948665 | 3323843 | 2435788 | 1517840 | 1273559 | 1568374 | 1884519 | 1989500 | 1901739 |
| Sole, rex..... | 1175957 | 1346409 | 1865611 | 1426686 | 1210425 | 874431 | 629946 | 632021 | 734799 | 623183 |
| Sole, rock..... | 28729 | 19871 | 66543 | 9278 | 4630 | 1424 | 12862 | 2498 | 11383 | 5555 |
| Sole, sand..... | 561711 | 735458 | 856930 | 696583 | 481734 | 485018 | 531913 | 500462 | 349569 | 487093 |
| Sole, slender..... | 25 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| Steelhead..... | 29772 | 61060 | 53564 | 80487 | 562348 | 454332 | 360654 | 319411 | 267345 | 252099 |
| Sturgeon, green..... | 23240 | 9990 | 21219 | 18970 | 54870 | 31431 | 87823 | 67553 | 57905 | 10673 |

TABLE 3A. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) IN OREGON, 1980-1989. (CONT.)

| | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 |
|------------------------|----------|----------|----------|---------|---------|----------|----------|----------|----------|----------|
| Sturgeon, white..... | 183789 | 280096 | 236691 | 296648 | 401621 | 306687 | 485588 | 428330 | 230867 | 200472 |
| Sturgeon, white - roe | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 0 |
| Sucker, largescale.... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| Sunfish, ocean..... | 0 | 0 | 0 | 244 | 70 | 0 | 0 | 0 | 50 | 0 |
| Surfperch spp..... | 121 | 167 | 342 | 2421 | 4920 | 3314 | 4369 | 2539 | 5551 | 3710 |
| Tomcod, Pacific..... | 0 | 0 | 0 | 46 | 0 | 0 | 0 | 0 | 69 | 0 |
| Tuna, albacore..... | 3504715 | 7726890 | 1903607 | 3354630 | 1624055 | 1524601 | 2461004 | 2288045 | 3967120 | 1079657 |
| Tuna, other..... | 1006 | 0 | 580 | 151 | 185 | 0 | 364 | 13 | 154 | 0 |
| Walleye..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7065 |
| Whiting, Pac. (hake).. | 605298 | 360251 | 3316 | 142536 | 745561 | 1950069 | 926681 | 402713 | 543196 | 195914 |
| Wolf-eel..... | 690 | 1435 | 2348 | 6747 | 5067 | 6947 | 7064 | 9276 | 4857 | 4917 |
| Wrymouth, giant..... | 0 | 0 | 0 | 0 | 0 | 71 | 487 | 254 | 560 | 121 |
| Miscellaneous.....5/ | 221060 | 335370 | 1219 | 3 | 271 | 223 | 1421 | 3947 | 227 | 0 |
| CRUSTACEANS: | | | | | | | | | | |
| Barnacle, gooseneck... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 561 |
| Crab, box..... | 0 | 0 | 502 | 16207 | 271881 | 93431 | 3060 | 24 | 0 | 412 |
| Crab, Dungeness, bay.. | 38677 | 21425 | 12526 | 10622 | 13694 | 25098 | 28521 | 62499 | 37598 | 63480 |
| Crab, Dungeness, ocean | 18512482 | 6962213 | 7022719 | 5339441 | 4999761 | 7397803 | 4632151 | 5928370 | 9379755 | 11612421 |
| Crab, mole..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 8 |
| Crab, rock..... | 1788 | 7 | 0 | 0 | 1155 | 1552 | 1806 | 5321 | 7772 | 4037 |
| Crab, Tanner..... | 0 | 0 | 65 | 1338 | 0 | 48 | 0 | 121 | 0 | 16 |
| Crayfish..... | 78270 | 83904 | 155231 | 125519 | 104745 | 196241 | 217829 | 336279 | 299013 | 237990 |
| Shrimp, brine..... | 3125 | 3935 | 7100 | 12402 | 16500 | 20100 | 22400 | 23100 | 26600 | 29800 |
| Shrimp, ghost..... | 57888 | 55499 | 68747 | 69905 | 115699 | 110134 | 75368 | 52470 | 70815 | 68040 |
| Shrimp, mud..... | 0 | 0 | 0 | 0 | 0 | 4663 | 53232 | 42273 | 40277 | 40995 |
| Shrimp, pink..... | 30135578 | 25915186 | 18461988 | 6547073 | 4843571 | 14855247 | 33883577 | 44589472 | 41846202 | 49128914 |
| Shrimp, spot..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 74 |
| Water flea (Daphnia).. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3000 |

TABLE 3A. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) IN OREGON, 1980-1989. (CONT.)

| | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 |
|-----------------------------|-----------|-----------|-----------|-----------|----------|----------|-----------|-----------|-----------|-----------|
| MOLLUSKS: | | | | | | | | | | |
| Clams, butter..... | 40 | 2409 | 3669 | 4035 | 4842 | 1646 | 2862 | 3046 | 2492 | 3806 |
| Clams, cockle..... | 2244 | 4580 | 10517 | 2579 | 17919 | 29412 | 32697 | 20202 | 30068 | 44344 |
| Clams, gaper..... | 73459 | 62142 | 104290 | 95091 | 50573 | 20121 | 16519 | 6368 | 3656 | 5164 |
| Clams, littleneck..... | 4268 | 4892 | 13265 | 34444 | 46874 | 46266 | 27573 | 14140 | 6971 | 6032 |
| Clams, razor..... | 20284 | 22516 | 26528 | 100 | 5803 | 58253 | 2906 | 29197 | 33910 | 32177 |
| Clams, softshell..... | 456 | 684 | 248 | 36 | 366 | 1809 | 3558 | 2527 | 1596 | 1136 |
| Mussels, ocean..... | 60629 | 17866 | 18372 | 28267 | 36198 | 40168 | 37494 | 48903 | 50656 | 65048 |
| Mussels, freshwater... | 0 | 0 | 0 | 2485 | 3856 | 0 | 2378 | 3407 | 2564 | 3773 |
| Octopus..... | 14048 | 14082 | 18597 | 16780 | 12970 | 7682 | 9540 | 18771 | 46903 | 15318 |
| Scallop, weathervane.. | 0 | 16853028 | 1487941 | 2648965 | 3329234 | 819030 | 105523 | 13590 | 29226 | 0 |
| Scallops, rock..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 220 |
| Squid..... | 0 | 225 | 113138 | 297410 | 946725 | 1751773 | 26371 | 29 | 5 | 96025 |
| OTHER INVERTEBRATES: | | | | | | | | | | |
| Sea urchin, red..... | 0 | 0 | 0 | 0 | 0 | 0 | 55820 | 202799 | 1970963 | 7842658 |
| Bloodworms..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| Worms, tube..... | 0 | 0 | 0 | 0 | 1333 | 2069 | 0 | 0 | 1570 | 1938 |
| | 124242143 | 148215499 | 129662201 | 100304005 | 84162927 | 99605673 | 113822486 | 138715639 | 148401945 | 165623652 |

- 1/ NOMINAL POP INCLUDED IN PACIFIC OCEAN PERCH
 2/ WIDOW AND YELLOWTAIL ROCKFISH, AND THORNYHEAD SP.
 INCLUDED IN ROCKFISH, OTHER SP.
 3/ YELLOWTAIL ROCKFISH AND THORNYHEAD SP.
 INCLUDED IN ROCKFISH, OTHER SP.

- 4/ YELLOWTAIL ROCKFISH INCLUDED IN ROCKFISH, OTHER SP.
 5/ INCLUDES MINK FOOD, WALLEYE AND INCIDENTAL SPECIES

TABLE 3B. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF COMMERCIAL FISH AND SHELLFISH LANDINGS IN OREGON, 1980-1989.

| | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 |
|------------------------|------------|------------|------------|------------|------------|---------|---------|---------|---------|---------|
| FISH: | | | | | | | | | | |
| Anchovy, northern..... | 0 | 0 | 0 | 0 | 0 | 33 | 0 | 0 | 13 | 15 |
| Bonito, Pacific..... | 0 | 0 | 0 | 410 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cabezon..... | 14 | 51 | 16 | 151 | 777 | 1258 | 2288 | 3038 | 7110 | 4354 |
| Carp..... | 1289 | 0 | 0 | 15 | 0 | 0 | 0 | 1118 | 0 | 0 |
| Cod, Pacific..... | 71436 | 24859 | 62393 | 48832 | 45205 | 21741 | 18398 | 481581 | 625521 | 448314 |
| Flounder, arrowtooth.. | 41100 | 120018 | 164547 | 120560 | 92031 | 154518 | 113304 | 239085 | 184682 | 242358 |
| Flounder, starry..... | 90752 | 198531 | 120657 | 117279 | 66432 | 217759 | 62845 | 74842 | 107108 | 133213 |
| Greenling sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 121 | 99 |
| Grenadier..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 | 7331 | 17920 |
| Hagfish sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9024 | 103256 |
| Halibut, Pacific..... | 3132 | 160059 | 182455 | 630225 | 800560 | 799007 | 1666336 | 1017882 | 873846 | 1302466 |
| Herring, Pacific..... | 63072 | 35082 | 4996 | 64785 | 35157 | 124515 | 91412 | 236438 | 234041 | 267457 |
| Irish Lord, brown..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Irish Lord, red..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Lamprey, Pacific..... | 120 | 1879 | 24974 | 468 | 630 | 0 | 4740 | 5633 | 1634 | 2950 |
| Lingcod..... | 376912 | 512442 | 767102 | 952460 | 585058 | 603982 | 443230 | 602709 | 799512 | 871307 |
| Mackerel, Pacific..... | 0 | 2 | 0 | 7834 | 638 | 0 | 1 | 535 | 365 | 1174 |
| Opah..... | 0 | 0 | 0 | 90 | 0 | 0 | 36 | 777 | 80 | 0 |
| Pikeminnow, northern.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Pollock, walleye..... | 0 | 0 | 0 | 35 | 221 | 62 | 61 | 0 | 0 | 5 |
| Pricklebck, monkeyface | 0 | 0 | 0 | 50 | 45 | 0 | 0 | 0 | 0 | 0 |
| Ratfish..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 11 |
| Pacific Ocean perch... | 641571 1/ | 696444 1/ | 1032428 1/ | 1110255 1/ | 365066 | 393135 | 386131 | 348285 | 409484 | 432166 |
| Nominal POP..... | 1/ | 1/ | 1/ | 1/ | 306842 | 554042 | 550968 | 628334 | 804034 | 737407 |
| Rockfish, widow..... | 2/ | 4042823 | 3028710 | 2/ | 2669839 | 2370269 | 2597444 | 4479994 | 3387375 | 3923316 |
| Rockfish, yellowtail.. | 2/ | 3/ | 3/ | 2/ | 4/ | 757874 | 1032350 | 1195589 | 1398034 | 1099739 |
| Rockfish, other sp.... | 5153816 2/ | 2936319 3/ | 4166193 3/ | 6029686 2/ | 2887695 4/ | 2595676 | 2335501 | 3472700 | 2899196 | 3134719 |
| Thornyhead sp..... | 2/ | 3/ | 3/ | 2/ | 423407 | 590577 | 395618 | 482734 | 780168 | 2050440 |
| Sablefish..... | 1050775 | 982278 | 2357870 | 2157759 | 1704332 | 3091329 | 3648211 | 5084115 | 4349726 | 3834542 |

TABLE 3B. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF COMMERCIAL FISH AND SHELLFISH LANDINGS IN OREGON, 1980-1989. (CONT).

| | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 |
|------------------------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|
| Salmon, chinook..... | 6719085 | 4826966 | 7598748 | 1874131 | 3051288 | 6736534 | 8269863 | 21472699 | 26844259 | 10652211 |
| Salmon, chum..... | 1251 | 6610 | 7186 | 581 | 5771 | 1270 | 3077 | 6412 | 10650 | 2144 |
| Salmon, coho..... | 3771904 | 5902223 | 4737758 | 1090965 | 1377374 | 1793852 | 6709596 | 4910527 | 11711991 | 3454954 |
| Salmon, pink..... | 1366 | 272238 | 0 | 158 | 0 | 168104 | 6 | 69432 | 10 | 13111 |
| Salmon, sockeye..... | 0 | 0 | 702 | 2021 | 90870 | 154043 | 16448 | 186607 | 126280 | 30 |
| Sanddab, Pacific..... | 98508 | 78654 | 155600 | 169961 | 200063 | 120468 | 110074 | 171223 | 79220 | 41369 |
| Sculpin, buffalo..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |
| Sculpin, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Shad, American..... | 16978 | 17201 | 91155 | 68004 | 25055 | 25041 | 79924 | 72841 | 93575 | 73650 |
| Shark, sixgill..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 74 |
| Shark, soupfin..... | 513 | 1183 | 4070 | 6428 | 4155 | 4521 | 5165 | 12367 | 2751 | 3114 |
| Shark, spiny dogfish.. | 3145 | 694 | 156 | 156 | 0 | 4 | 186 | 83 | 191 | 333 |
| Shark, thresher..... | 0 | 0 | 0 | 0 | 0 | 2092 | 609689 | 155084 | 135208 | 49 |
| Shark, other sp..... | 0 | 650 | 4429 | 3414 | 507 | 792 | 928 | 2882 | 39 | 95 |
| Skates and rays..... | 14515 | 6611 | 15655 | 32988 | 10234 | 2609 | 5992 | 6714 | 1461 | 2654 |
| Smelt (eulachon)..... | 25641 | 1655 | 6600 | 8954 | 1105 | 76883 | 1633 | 0 | 12343 | 4194 |
| Smelt, whitebait..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1451 |
| Smelt, other sp..... | 109 | 105 | 1094 | 117 | 7607 | 20605 | 7302 | 12357 | 12 | 1924 |
| Sole, butter..... | 5410 | 4244 | 3557 | 2128 | 437 | 140 | 216 | 2650 | 173 | 617 |
| Sole, curlfin (turbot) | 340 | 1963 | 2947 | 2890 | 1928 | 1480 | 1635 | 3220 | 2232 | 1907 |
| Sole, Dover..... | 1832263 | 2571299 | 4195777 | 4228989 | 3193735 | 3159927 | 2827028 | 4183769 | 5216349 | 5472600 |
| Sole, English..... | 433692 | 462837 | 700982 | 650791 | 319973 | 342466 | 439733 | 533189 | 500680 | 562838 |
| Sole, flathead..... | 1272 | 3098 | 1738 | 5461 | 3861 | 10588 | 1977 | 494 | 7946 | 2755 |
| Sole, petrale..... | 874306 | 1027438 | 2060677 | 1697368 | 1092850 | 935849 | 1198160 | 1552685 | 1662075 | 1589975 |
| Sole, rex..... | 350481 | 403640 | 600873 | 466984 | 401101 | 291110 | 225869 | 248293 | 285249 | 227305 |
| Sole, rock..... | 10585 | 6596 | 22247 | 2825 | 1435 | 389 | 4455 | 1061 | 3022 | 2112 |
| Sole, sand..... | 218239 | 340163 | 447150 | 414491 | 295994 | 305639 | 346499 | 366786 | 260971 | 363872 |
| Sole, slender..... | 5 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Steelhead..... | 34559 | 74706 | 59320 | 62010 | 590805 | 212353 | 199135 | 351209 | 382736 | 136572 |
| Sturgeon, green..... | 10106 | 4066 | 7701 | 7442 | 25093 | 14934 | 44133 | 34320 | 32230 | 5444 |

TABLE 3B. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF COMMERCIAL FISH AND SHELLFISH LANDINGS IN OREGON, 1980-1989. (CONT).

| | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 |
|------------------------|----------|----------|---------|---------|---------|----------|----------|----------|----------|----------|
| Sturgeon, white..... | 186454 | 289517 | 247666 | 335681 | 548411 | 447900 | 771395 | 714606 | 423942 | 385225 |
| Sturgeon, white - roe | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 925 | 0 |
| Sucker, largescale.... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Sunfish, ocean..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| Surfperch spp..... | 0 | 5 | 78 | 1271 | 2027 | 1297 | 2638 | 1748 | 3105 | 2810 |
| Tomcod, Pacific..... | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 31 | 0 |
| Tuna, albacore..... | 2708470 | 6681931 | 1243863 | 1848754 | 863819 | 803741 | 1373727 | 1675345 | 3327334 | 887241 |
| Tuna, other..... | 584 | 0 | 243 | 76 | 184 | 0 | 125 | 9 | 65 | 0 |
| Walleye..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4649 |
| Whiting, Pac. (hake).. | 42195 | 24896 | 63 | 27820 | 6192 | 103310 | 57131 | 33054 | 41183 | 14625 |
| Wolf-eel..... | 0 | 0 | 328 | 1212 | 1330 | 1451 | 1762 | 2304 | 1025 | 1471 |
| Wrymouth, giant..... | 0 | 0 | 0 | 0 | 0 | 13 | 104 | 95 | 58 | 18 |
| Miscellaneous.....5/ | 0 | 158 | 1596 | 0 | 123 | 1 | 3209 | 4551 | 534 | 0 |
| CRUSTACEANS: | | | | | | | | | | |
| Barnacle, gooseneck... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 1938 |
| Crab, box..... | 0 | 0 | 294 | 10829 | 145762 | 12168 | 1530 | 10 | 0 | 108 |
| Crab, Dungeness, bay.. | 30951 | 23780 | 13585 | 16556 | 20187 | 42050 | 47871 | 111431 | 63332 | 101571 |
| Crab, Dungeness, ocean | 12272536 | 6688967 | 7536083 | 7917249 | 7723085 | 10592193 | 6540840 | 8240445 | 11217831 | 13462688 |
| Crab, mole..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 8 |
| Crab, rock..... | 0 | 0 | 0 | 0 | 0 | 0 | 1806 | 5321 | 7772 | 4037 |
| Crab, Tanner..... | 0 | 0 | 39 | 1355 | 0 | 17 | 0 | 242 | 0 | 16 |
| Crayfish..... | 68553 | 97555 | 166444 | 127079 | 107039 | 198503 | 225714 | 470539 | 415975 | 318466 |
| Shrimp, brine..... | 3749 | 4330 | 8520 | 17115 | 24750 | 11250 | 22395 | 34650 | 39900 | 46260 |
| Shrimp, ghost..... | 83556 | 38512 | 59767 | 27840 | 83922 | 32162 | 139435 | 135904 | 90038 | 97903 |
| Shrimp, mud..... | 0 | 0 | 0 | 0 | 0 | 1416 | 65089 | 64882 | 66198 | 67123 |
| Shrimp, pink..... | 16676568 | 13039354 | 9289684 | 4656474 | 2148290 | 5241977 | 18128630 | 30273745 | 17149670 | 17906265 |
| Shrimp, spot..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 259 |
| Water flea (Daphina).. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3000 |

TABLE 3B. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF COMMERCIAL FISH AND SHELLFISH LANDINGS IN OREGON, 1980-1989. (CONT).

| | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| MOLLUSKS: | | | | | | | | | | |
| Clams, butter..... | 0 | 663 | 1148 | 1642 | 1967 | 442 | 1373 | 1422 | 1549 | 1547 |
| Clams, cockle..... | 730 | 1121 | 2542 | 540 | 6286 | 11425 | 12854 | 5704 | 12075 | 20643 |
| Clams, gaper..... | 19264 | 21370 | 34843 | 28530 | 15783 | 5495 | 3489 | 1573 | 1176 | 1750 |
| Clams, littleneck..... | 3841 | 5193 | 14230 | 36600 | 48321 | 44787 | 28353 | 15716 | 8219 | 8951 |
| Clams, razor..... | 26623 | 34968 | 42807 | 189 | 10417 | 114940 | 6058 | 64172 | 86831 | 87962 |
| Clams, softshell..... | 254 | 4 | 166 | 6 | 103 | 161 | 1871 | 524 | 554 | 450 |
| Mussels, ocean..... | 20681 | 15625 | 24490 | 7959 | 4198 | 10830 | 17643 | 26478 | 20075 | 21871 |
| Mussels, freshwater... | 0 | 0 | 0 | 55 | 0 | 0 | 666 | 954 | 744 | 1094 |
| Octopus..... | 4921 | 5833 | 8084 | 6647 | 5500 | 3812 | 5890 | 14197 | 31257 | 8625 |
| Scallop, weathervane.. | 0 | 4632863 | 427293 | 778857 | 1016881 | 327922 | 47588 | 6406 | 12017 | 0 |
| Scallops, rock..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Squid..... | 0 | 45 | 9089 | 79920 | 199936 | 318691 | 2685 | 3 | 1 | 7683 |
| OTHER INVERTEBRATES: | | | | | | | | | | |
| Sea urchin, red..... | 0 | 0 | 0 | 0 | 0 | 0 | 14708 | 51360 | 571083 | 2728272 |
| Bloodworms..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Worms, tube..... | 0 | 0 | 0 | 0 | 5 | 535 | 0 | 0 | 314 | 773 |
| TOTAL | 54068192 | 57332317 | 51771408 | 37970413 | 33669694 | 44985961 | 61984176 | 94669743 | 97844960 | 77419912 |

- 1/ NOMINAL POP INCLUDED IN PACIFIC OCEAN PERCH
- 2/ WIDOW AND YELLOWTAIL ROCKFISH, AND THORNYHEAD SP.
INCLUDED IN ROCKFISH, OTHER SP.
- 3/ YELLOWTAIL ROCKFISH AND THORNYHEAD SP.
INCLUDED IN ROCKFISH, OTHER SP.

- 4/ YELLOWTAIL ROCKFISH INCLUDED IN ROCKFISH, OTHER SP.
- 5/ INCLUDES MINK FOOD, WALLEYE AND INCIDENTAL SPECIES

TABLE 4. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY PORT IN OREGON, 1989.

| SPECIES | COLUMBIA | | PACIFIC | | DEPOE | WINCHESTER | | | | PORT | GOLD | | OTHER 2/ | TOTAL | |
|------------------------|----------|---------|-----------|-------|-------|------------|----------|--------|------------|--------|--------|-------|-----------|-------|-----------|
| | RIVER 1/ | ASTORIA | GARIBALDI | CITY | BAY | NEWPORT | FLORENCE | BAY | CHARLESTON | BANDON | ORFORD | BEACH | BROOKINGS | | LOCATIONS |
| FISH: | | | | | | | | | | | | | | | |
| Anchovy, northern..... | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| Cabezon..... | 0 | 0 | 1089 | 881 | 10049 | 1617 | 0 | 65 | 435 | 0 | 584 | 0 | 45 | 0 | 14765 |
| Cod, Pacific..... | 0 | 1308101 | 135915 | 0 | 0 | 261966 | 0 | 144 | 14281 | 0 | 0 | 0 | 144 | 0 | 1720551 |
| Flounder, arrowtooth.. | 0 | 2017387 | 174513 | 0 | 5 | 161480 | 0 | 94 | 144617 | 0 | 10 | 0 | 7871 | 0 | 2505977 |
| Flounder, starry..... | 13303 | 323856 | 14965 | 0 | 3 | 69629 | 0 | 345 | 19883 | 0 | 0 | 0 | 1272 | 0 | 443256 |
| Greenling sp..... | 0 | 0 | 0 | 0 | 149 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 169 |
| Grenadier..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24931 | 0 | 0 | 0 | 88050 | 0 | 112981 |
| Hagfish sp..... | 0 | 195205 | 0 | 0 | 0 | 148982 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 344187 |
| Halibut, Pacific..... | 0 | 646905 | 44140 | 270 | 1824 | 148340 | 0 | 30674 | 23647 | 3091 | 16871 | 0 | 262 | 0 | 916024 |
| Herring, Pacific..... | 0 | 0 | 0 | 0 | 0 | 546115 | 0 | 276 | 0 | 0 | 0 | 0 | 0 | 0 | 546391 |
| Irish Lord, brown..... | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Irish Lord, red..... | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Lamprey, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8366 | 8366 |
| Lingcod..... | 0 | 1098826 | 189922 | 21404 | 17148 | 563880 | 485 | 4510 | 472502 | 902 | 70189 | 3510 | 148534 | 8 | 2591820 |
| Mackerel, Pacific..... | 0 | 60 | 1531 | 2794 | 1345 | 4643 | 0 | 0 | 70 | 0 | 0 | 0 | 0 | 0 | 10443 |
| Pikeminnow, northern.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 | 42 |
| Pollock, walleye..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 | 0 | 0 | 0 | 0 | 0 | 47 |
| Ratfish..... | 0 | 0 | 0 | 0 | 0 | 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110 |
| Pacific Ocean perch... | 0 | 1229384 | 7220 | 0 | 0 | 240499 | 0 | 0 | 80262 | 0 | 0 | 0 | 0 | 0 | 1557365 |
| Nominal POP..... | 0 | 676078 | 708773 | 0 | 0 | 989571 | 0 | 215 | 589461 | 0 | 0 | 0 | 82286 | 0 | 3046384 |
| Rockfish, widow..... | 0 | 4066246 | 283173 | 0 | 0 | 8639006 | 172 | 0 | 1318920 | 0 | 0 | 0 | 929030 | 0 | 15236547 |
| Rockfish, yellowtail.. | 0 | 2734729 | 241788 | 0 | 1 | 440272 | 160 | 3 | 513026 | 0 | 0 | 0 | 146750 | 0 | 4076729 |
| Rockfish, other sp.... | 0 | 5065442 | 372842 | 38358 | 47860 | 3311324 | 2552 | 9100 | 1773089 | 13334 | 233513 | 5417 | 213230 | 98 | 11086159 |
| Thornyhead sp..... | 0 | 1273760 | 82731 | 0 | 0 | 362121 | 0 | 78 | 2044841 | 678 | 0 | 0 | 1799942 | 0 | 5564151 |
| Sablefish..... | 0 | 2342842 | 227946 | 0 | 6928 | 1632516 | 516809 | 171519 | 2810361 | 130834 | 46258 | 0 | 818835 | 0 | 8704848 |
| Salmon, chinook..... | 3548202 | 55319 | 278491 | 68664 | 16938 | 875746 | 151119 | 378925 | 1562965 | 153573 | 321592 | 10671 | 184472 | 3862 | 7610539 |
| Salmon, chum..... | 3666 | 0 | 59 | 92 | 0 | 241 | 0 | 100 | 6 | 0 | 0 | 0 | 0 | 0 | 4164 |

TABLE 4. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY PORT IN OREGON, 1989. (CONT.)

| SPECIES | COLUMBIA | | | PACIFIC | | DEPOE | | WINCHESTER | | | PORT | GOLD | | OTHER 2/ | TOTAL |
|------------------------|----------|---------|-----------|---------|--------|---------|----------|------------|------------|--------|--------|-------|-----------|-----------|----------|
| | RIVER 1/ | ASTORIA | GARIBALDI | CITY | BAY | NEWPORT | FLORENCE | BAY | CHARLESTON | BANDON | ORFORD | BEACH | BROOKINGS | LOCATIONS | |
| Salmon, coho..... | 1541772 | 114156 | 350223 | 255942 | 101124 | 574745 | 103205 | 208501 | 386350 | 74649 | 67157 | 0 | 5581 | 53214 | 3836619 |
| Salmon, pink..... | 0 | 243 | 4245 | 3459 | 439 | 4184 | 95 | 1154 | 4970 | 338 | 924 | 0 | 52 | 192 | 20295 |
| Salmon, sockeye..... | 59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 59 |
| Sanddab, Pacific..... | 0 | 82730 | 8458 | 0 | 0 | 56282 | 0 | 0 | 12354 | 0 | 0 | 0 | 3099 | 0 | 162923 |
| Sculpin, buffalo..... | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Sculpin, other sp..... | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Shad, American..... | 143825 | 35 | 6 | 0 | 0 | 0 | 11633 | 39017 | 0 | 0 | 0 | 0 | 0 | 0 | 194516 |
| Shark, sixgill..... | 0 | 0 | 0 | 0 | 36 | 40 | 0 | 0 | 11 | 0 | 48 | 0 | 0 | 0 | 135 |
| Shark, soupfin..... | 0 | 2016 | 77 | 0 | 30 | 600 | 0 | 0 | 139 | 0 | 0 | 0 | 402 | 0 | 3264 |
| Shark, spiny dogfish.. | 0 | 500 | 0 | 0 | 34 | 164 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 698 |
| Shark, thresher..... | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| Shark, other sp..... | 0 | 122 | 22 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 159 |
| Skates and rays..... | 0 | 553 | 1277 | 0 | 0 | 6196 | 0 | 73 | 220 | 0 | 0 | 0 | 0 | 0 | 8319 |
| Smelt (eulachon)..... | 19968 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19968 |
| Smelt, whitebait..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4512 | 0 | 4512 |
| Smelt, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9686 | 0 | 9686 |
| Sole, butter..... | 0 | 0 | 1295 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1170 | 0 | 2465 |
| Sole, curlfin (turbot) | 0 | 0 | 114 | 0 | 0 | 2482 | 0 | 6 | 2818 | 0 | 0 | 0 | 0 | 0 | 5420 |
| Sole, Dover..... | 0 | 8809807 | 1027843 | 0 | 4 | 1773047 | 0 | 88 | 6978705 | 0 | 0 | 0 | 1048864 | 0 | 19638358 |
| Sole, English..... | 0 | 838604 | 59454 | 0 | 0 | 290162 | 0 | 0 | 304316 | 0 | 0 | 0 | 34736 | 0 | 1527272 |
| Sole, flathead..... | 0 | 7214 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7252 |
| Sole, petrale..... | 0 | 741889 | 116244 | 0 | 0 | 354548 | 0 | 22 | 616376 | 0 | 0 | 0 | 72660 | 0 | 1901739 |
| Sole, rex..... | 0 | 413399 | 28295 | 0 | 0 | 93938 | 0 | 0 | 46563 | 0 | 0 | 0 | 40988 | 0 | 623183 |
| Sole, rock..... | 0 | 0 | 0 | 0 | 0 | 524 | 0 | 0 | 5022 | 0 | 0 | 0 | 9 | 0 | 5555 |
| Sole, sand..... | 0 | 241851 | 43833 | 0 | 0 | 115095 | 0 | 746 | 69440 | 0 | 0 | 0 | 16128 | 0 | 487093 |
| Steelhead..... | 252099 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 252099 |
| Sturgeon, green..... | 3840 | 2128 | 562 | 0 | 0 | 3433 | 0 | 0 | 683 | 0 | 0 | 0 | 27 | 0 | 10673 |
| Sturgeon, white..... | 199994 | 154 | 0 | 0 | 0 | 324 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 200472 |
| Sucker, largescale.... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 28 |

TABLE 4. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY PORT IN OREGON, 1989. (CONT.)

| SPECIES | COLUMBIA | | PACIFIC | | DEPOE | WINCHESTER | | | | PORT | GOLD | | OTHER 2/ | TOTAL | |
|------------------------|----------|----------|-----------|------|-------|------------|---------|----------|----------|-------|------------|--------|----------|--------|----------|
| | RIVER 1/ | ASTORIA | GARIBALDI | CITY | | BAY | NEWPORT | FLORENCE | BAY | | CHARLESTON | BANDON | | | ORFORD |
| Surfperch spp..... | 0 | 0 | 0 | 0 | 1 | 1182 | 0 | 0 | 34 | 0 | 0 | 0 | 2493 | 0 | 3710 |
| Tuna, albacore..... | 0 | 444142 | 424 | 0 | 0 | 266441 | 6022 | 90393 | 243777 | 9556 | 0 | 296 | 18606 | 0 | 1079657 |
| Walleye..... | 7065 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7065 |
| Whiting, Pac. (hake).. | 0 | 10505 | 0 | 0 | 0 | 184028 | 0 | 0 | 1381 | 0 | 0 | 0 | 0 | 0 | 195914 |
| Wolf-eel..... | 0 | 1804 | 1064 | 87 | 937 | 838 | 0 | 2 | 179 | 0 | 6 | 0 | 0 | 0 | 4917 |
| Wrymouth, giant..... | 0 | 85 | 0 | 0 | 0 | 25 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 121 |
| CRUSTACEANS: | | | | | | | | | | | | | | | |
| Barnacle, gooseneck... | 0 | 0 | 0 | 0 | 221 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 340 | 561 |
| Crab, box..... | 0 | 0 | 0 | 0 | 0 | 412 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 412 |
| Crab, Dungeness, bay.. | 0 | 0 | 24 | 0 | 0 | 1092 | 3881 | 7254 | 35755 | 126 | 0 | 0 | 0 | 15348 | 63480 |
| Crab, Dungeness, ocean | 0 | 4439172 | 584653 | 266 | 61560 | 2658189 | 250630 | 636811 | 1329623 | 10072 | 385461 | 6579 | 1249405 | 0 | 11612421 |
| Crab, mole..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 8 |
| Crab, rock..... | 0 | 0 | 0 | 0 | 4 | 4033 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4037 |
| Crab, Tanner..... | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| Crayfish..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 237990 | 237990 |
| Shrimp, brine..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29800 | 29800 |
| Shrimp, ghost..... | 0 | 0 | 10617 | 6287 | 0 | 0 | 363 | 0 | 7174 | 0 | 0 | 0 | 0 | 43599 | 68040 |
| Shrimp, mud..... | 0 | 0 | 13376 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 27519 | 40995 |
| Shrimp, pink..... | 0 | 10231833 | 2240978 | 0 | 0 | 18363565 | 0 | 76183 | 13283276 | 0 | 302317 | 0 | 4630762 | 0 | 49128914 |
| Shrimp, spot..... | 0 | 74 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 74 |
| Water flea (Daphina).. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3000 | 3000 |
| MOLLUSKS: | | | | | | | | | | | | | | | |
| Clams, butter..... | 0 | 0 | 1295 | 0 | 0 | 0 | 0 | 0 | 2511 | 0 | 0 | 0 | 0 | 0 | 3806 |
| Clams, cockle..... | 0 | 0 | 42325 | 0 | 0 | 0 | 0 | 150 | 951 | 0 | 0 | 0 | 0 | 918 | 44344 |
| Clams, gaper..... | 0 | 0 | 100 | 0 | 0 | 2590 | 0 | 0 | 2474 | 0 | 0 | 0 | 0 | 0 | 5164 |
| Clams, littleneck..... | 0 | 0 | 5930 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 80 | 6032 |
| Clams, razor..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32177 | 32177 |
| Clams, softshell..... | 0 | 0 | 0 | 0 | 0 | 200 | 600 | 0 | 225 | 36 | 0 | 0 | 0 | 75 | 1136 |

TABLE 4. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY PORT IN OREGON, 1989. (CONT.)

| SPECIES | COLUMBIA | | PACIFIC | | DEPOE | WINCHESTER | | | | PORT | GOLD | | OTHER 2/ | TOTAL | |
|------------------------|----------------|-----------------|----------------|---------------|---------------|-----------------|----------------|----------------|-----------------|---------------|----------------|----------------|-----------------|---------------|------------------|
| | RIVER 1/ | ASTORIA | GARIBALDI | CITY | BAY | NEWPORT | FLORENCE | BAY | CHARLESTON | BANDON | ORFORD | BEACH | BROOKINGS | | LOCATIONS |
| Mussels, ocean..... | 0 | 0 | 0 | 0 | 2473 | 2030 | 1555 | 51049 | 1111 | 2950 | 900 | 0 | 0 | 2980 | 65048 |
| Mussels, freshwater... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3773 | 3773 |
| Octopus..... | 0 | 3440 | 872 | 0 | 337 | 2004 | 0 | 0 | 262 | 0 | 1617 | 24 | 6762 | 0 | 15318 |
| Scallops, rock..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 210 | 10 | 0 | 0 | 220 |
| Squid..... | 0 | 0 | 11 | 0 | 0 | 96014 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 96025 |
| OTHER INVERTEBRATES: | | | | | | | | | | | | | | | |
| Sea urchin, red..... | 0 | 0 | 0 | 0 | 9313 | 88993 | 0 | 0 | 63854 | 0 | 6031610 | 1585492 | 63396 | 0 | 7842658 |
| Bloodworms..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 28 |
| Worms, tube..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1938 | 0 | 0 | 0 | 0 | 0 | 1938 |
| TOTAL | 5733823 | 49420626 | 7308753 | 398504 | 278763 | 43345525 | 1049281 | 1707508 | 34795986 | 400139 | 7479267 | 1612007 | 11630061 | 463409 | 165623652 |

1/ OREGON LANDINGS ONLY.

2/ LANDINGS AT SEASIDE/GEARHART, CANNON BEACH, NEHALEM BAY, NETARTS BAY, SILETZ BAY, WALDPOR AND INLAND WATERS.

SEE TABLE 63 FOR REPORTED LANDINGS OF SPECIES HARVESTED FROM INLAND WATERS.

TABLE 5. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH IN OREGON, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|---------|---------|---------|---------|---------|---------|-----------|---------|----------|----------|----------|
| FISH: | | | | | | | | | | | | | |
| Anchovy, northern..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 30 |
| Cabezon..... | 621 | 646 | 366 | 3738 | 5271 | 385 | 1024 | 716 | 1302 | 60 | 319 | 317 | 14765 |
| Cod, Pacific..... | 60895 | 34835 | 19418 | 146739 | 194055 | 245080 | 338099 | 419090 | 144828 | 39960 | 15373 | 62179 | 1720551 |
| Flounder, arrowtooth.. | 95827 | 152080 | 101512 | 126831 | 171308 | 319840 | 433232 | 343080 | 286028 | 187679 | 155882 | 132678 | 2505977 |
| Flounder, starry..... | 833 | 4539 | 3004 | 8723 | 166808 | 88002 | 50360 | 60000 | 53230 | 3386 | 788 | 3583 | 443256 |
| Greenling sp..... | 1 | 0 | 0 | 17 | 32 | 47 | 42 | 30 | 0 | 0 | 0 | 0 | 169 |
| Grenadier..... | 240 | 1090 | 7250 | 12558 | 7665 | 10990 | 13250 | 18201 | 19159 | 10855 | 9413 | 2310 | 112981 |
| Hagfish sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 55067 | 11730 | 82396 | 99769 | 62597 | 32628 | 344187 |
| Halibut, Pacific..... | 0 | 200 | 0 | 0 | 27357 | 304590 | 32872 | 55080 | 313795 | 182058 | 23 | 49 | 916024 |
| Herring, Pacific..... | 0 | 529241 | 138 | 16734 | 0 | 276 | 2 | 0 | 0 | 0 | 0 | 0 | 546391 |
| Irish Lord, brown..... | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Irish Lord, red..... | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Lamprey, Pacific..... | 0 | 0 | 0 | 0 | 0 | 5984 | 2382 | 0 | 0 | 0 | 0 | 0 | 8366 |
| Lingcod..... | 49119 | 87365 | 61793 | 134124 | 254729 | 299872 | 343504 | 378856 | 487069 | 300458 | 89578 | 105353 | 2591820 |
| Mackerel, Pacific..... | 0 | 0 | 0 | 0 | 0 | 36 | 5542 | 4827 | 28 | 10 | 0 | 0 | 10443 |
| Pikeminnow, northern.. | 0 | 0 | 0 | 24 | 6 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| Pollock, walleye..... | 0 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| Ratfish..... | 0 | 0 | 0 | 0 | 0 | 0 | 76 | 34 | 0 | 0 | 0 | 0 | 110 |
| Pacific Ocean perch... | 102533 | 136957 | 103033 | 172240 | 208829 | 216798 | 221777 | 129351 | 142174 | 89468 | 34101 | 104 | 1557365 |
| Nominal POP..... | 355471 | 403772 | 156503 | 237852 | 190404 | 252077 | 323941 | 347928 | 284442 | 203280 | 101322 | 189392 | 3046384 |
| Rockfish, widow..... | 3282375 | 2877020 | 2273220 | 2011136 | 493275 | 475920 | 852872 | 1066934 | 1229372 | 500143 | 56019 | 118261 | 15236547 |
| Rockfish, yellowtail.. | 361523 | 324335 | 249483 | 441678 | 547594 | 488035 | 404698 | 307987 | 482701 | 262353 | 75622 | 130720 | 4076729 |
| Rockfish, other sp.... | 719980 | 733212 | 427758 | 1093635 | 1206099 | 1110883 | 1069594 | 1315311 | 1305883 | 1011852 | 475497 | 616455 | 11086159 |
| Thornyhead sp..... | 352884 | 423029 | 451460 | 499327 | 426222 | 338836 | 576966 | 552160 | 334528 | 431808 | 547007 | 629924 | 5564151 |
| Sablefish..... | 526641 | 486939 | 534364 | 1084147 | 1254750 | 1058468 | 1160174 | 571333 | 518349 | 509320 | 439370 | 560993 | 8704848 |
| Salmon, chinook..... | 0 | 85779 | 90960 | 708 | 1134292 | 671737 | 858287 | 1893025 | 2338111 | 434738 | 102902 | 0 | 7610539 |
| Salmon, chum..... | 0 | 0 | 0 | 0 | 251 | 133 | 96 | 18 | 15 | 2553 | 1098 | 0 | 4164 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 5352 | 1859137 | 381603 | 493665 | 982059 | 114803 | 0 | 3836619 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 1451 | 2965 | 11821 | 4044 | 14 | 0 | 0 | 0 | 20295 |

TABLE 5. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH IN OREGON, 1989. (CONT.)

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|---------|---------|---------|--------|---------|---------|-----------|---------|----------|----------|----------|
| Salmon, sockeye..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 | 7 | 0 | 0 | 0 | 59 |
| Sanddab, Pacific..... | 15541 | 27560 | 9406 | 20911 | 14011 | 7522 | 15052 | 16738 | 15636 | 6400 | 2626 | 11520 | 162923 |
| Sculpin, buffalo..... | 0 | 0 | 0 | 5 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| Sculpin, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| Shad, American..... | 0 | 0 | 0 | 0 | 85917 | 107167 | 1391 | 0 | 41 | 0 | 0 | 0 | 194516 |
| Shark, sixgill..... | 0 | 11 | 0 | 0 | 0 | 36 | 0 | 40 | 0 | 0 | 48 | 0 | 135 |
| Shark, soupfin..... | 40 | 398 | 0 | 28 | 64 | 492 | 860 | 366 | 54 | 156 | 338 | 468 | 3264 |
| Shark, spiny dogfish.. | 0 | 0 | 0 | 18 | 4 | 53 | 77 | 43 | 3 | 490 | 0 | 10 | 698 |
| Shark, thresher..... | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| Shark, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 144 | 0 | 0 | 0 | 0 | 159 |
| Skates and rays..... | 675 | 1866 | 837 | 70 | 272 | 802 | 673 | 1805 | 1016 | 0 | 192 | 111 | 8319 |
| Smelt (eulachon)..... | 0 | 200 | 19768 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19968 |
| Smelt, whitebait..... | 0 | 0 | 0 | 0 | 1229 | 90 | 3193 | 0 | 0 | 0 | 0 | 0 | 4512 |
| Smelt, other sp..... | 0 | 0 | 0 | 0 | 725 | 3202 | 4744 | 1015 | 0 | 0 | 0 | 0 | 9686 |
| Sole, butter..... | 0 | 0 | 0 | 0 | 63 | 0 | 0 | 1227 | 5 | 1170 | 0 | 0 | 2465 |
| Sole, curlfin (turbot) | 0 | 186 | 52 | 231 | 2472 | 1042 | 1304 | 126 | 0 | 0 | 0 | 7 | 5420 |
| Sole, Dover..... | 1925430 | 1615360 | 1665516 | 2362025 | 1411751 | 968607 | 1169823 | 1418259 | 1691784 | 1792861 | 1611779 | 2005163 | 19638358 |
| Sole, English..... | 69424 | 152889 | 40463 | 75081 | 116535 | 182918 | 244156 | 196105 | 219116 | 105852 | 57765 | 66968 | 1527272 |
| Sole, flathead..... | 0 | 0 | 0 | 0 | 7 | 203 | 867 | 714 | 0 | 5461 | 0 | 0 | 7252 |
| Sole, petrale..... | 479034 | 232581 | 88155 | 84319 | 46927 | 62610 | 129002 | 144214 | 149513 | 79884 | 83113 | 322387 | 1901739 |
| Sole, rex..... | 44313 | 72868 | 29938 | 50598 | 47743 | 60646 | 69726 | 64097 | 87264 | 46977 | 17760 | 31253 | 623183 |
| Sole, rock..... | 0 | 0 | 0 | 96 | 263 | 3493 | 1370 | 241 | 9 | 2 | 80 | 1 | 5555 |
| Sole, sand..... | 9067 | 4911 | 5005 | 8891 | 69201 | 91667 | 72597 | 129398 | 78868 | 13063 | 1191 | 3234 | 487093 |
| Steelhead..... | 0 | 4754 | 37111 | 0 | 0 | 0 | 0 | 53056 | 157178 | 0 | 0 | 0 | 252099 |
| Sturgeon, green..... | 231 | 179 | 194 | 126 | 1545 | 2201 | 429 | 782 | 4121 | 616 | 134 | 115 | 10673 |
| Sturgeon, white..... | 951 | 29114 | 55035 | 1295 | 0 | 296 | 20 | 62845 | 31471 | 14142 | 5303 | 0 | 200472 |
| Sucker, largescale.... | 0 | 0 | 0 | 20 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| Surfperch spp..... | 25 | 377 | 761 | 844 | 5 | 328 | 448 | 560 | 0 | 160 | 189 | 13 | 3710 |
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 41164 | 413364 | 460742 | 157044 | 7343 | 0 | 1079657 |
| Walleye..... | 0 | 137 | 5218 | 0 | 0 | 0 | 0 | 795 | 915 | 0 | 0 | 0 | 7065 |

TABLE 5. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH IN OREGON, 1989. (CONT.)

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|--------|---------|---------|---------|---------|---------|-----------|---------|----------|----------|----------|
| Whiting, Pac. (hake).. | 0 | 0 | 0 | 65114 | 6240 | 0 | 0 | 0 | 49168 | 42129 | 33263 | 0 | 195914 |
| Wolf-eel..... | 22 | 52 | 64 | 566 | 1450 | 786 | 348 | 686 | 704 | 175 | 7 | 57 | 4917 |
| Wrymouth, giant..... | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 40 | 0 | 0 | 20 | 17 | 121 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Barnacle, gooseneck... | 90 | 250 | 0 | 52 | 130 | 15 | 0 | 15 | 4 | 5 | 0 | 0 | 561 |
| Crab, box..... | 18 | 0 | 0 | 0 | 0 | 0 | 49 | 28 | 304 | 0 | 0 | 13 | 412 |
| Crab, Dungeness, bay.. | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 21359 | 21277 | 20031 | 811 | 63480 |
| Crab, Dungeness, ocean | 2791502 | 1378145 | 550587 | 619286 | 508381 | 187504 | 239226 | 101445 | 0 | 0 | 0 | 5236345 | 11612421 |
| Crab, mole..... | 0 | 0 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Crab, rock..... | 763 | 810 | 902 | 215 | 553 | 127 | 203 | 104 | 79 | 20 | 125 | 136 | 4037 |
| Crab, Tanner..... | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 12 | 0 | 0 | 0 | 0 | 16 |
| Crayfish..... | 0 | 0 | 0 | 4982 | 14172 | 48774 | 64466 | 46423 | 38109 | 21064 | 0 | 0 | 237990 |
| Shrimp, brine..... | 0 | 0 | 0 | 0 | 6200 | 9300 | 12300 | 2000 | 0 | 0 | 0 | 0 | 29800 |
| Shrimp, ghost..... | 3028 | 2232 | 3464 | 5452 | 8908 | 9091 | 6948 | 6312 | 7144 | 9623 | 3865 | 1973 | 68040 |
| Shrimp, mud..... | 8436 | 4721 | 5714 | 3209 | 1160 | 843 | 724 | 1213 | 1444 | 1812 | 4886 | 6833 | 40995 |
| Shrimp, pink..... | 0 | 0 | 0 | 8253871 | 9349972 | 7012652 | 3542496 | 8273472 | 7353482 | 5342969 | 0 | 0 | 49128914 |
| Shrimp, spot..... | 0 | 0 | 0 | 0 | 0 | 0 | 74 | 0 | 0 | 0 | 0 | 0 | 74 |
| Water flea (Daphina).. | 0 | 3000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3000 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Clams, butter..... | 0 | 135 | 208 | 714 | 759 | 58 | 180 | 0 | 0 | 1073 | 416 | 263 | 3806 |
| Clams, cockle..... | 4736 | 4525 | 5144 | 10928 | 1363 | 7117 | 0 | 3270 | 700 | 300 | 381 | 5880 | 44344 |
| Clams, gaper..... | 100 | 550 | 0 | 0 | 0 | 0 | 0 | 110 | 45 | 792 | 1195 | 2372 | 5164 |
| Clams, littleneck..... | 47 | 54 | 75 | 539 | 285 | 142 | 764 | 1432 | 1496 | 979 | 165 | 54 | 6032 |
| Clams, razor..... | 2162 | 1457 | 2222 | 8417 | 7845 | 4555 | 1056 | 0 | 723 | 1621 | 1271 | 848 | 32177 |
| Clams, softshell..... | 0 | 0 | 0 | 216 | 375 | 0 | 445 | 100 | 0 | 0 | 0 | 0 | 1136 |
| Mussels, ocean..... | 6436 | 4146 | 6223 | 7825 | 9812 | 9796 | 4768 | 3340 | 2097 | 2276 | 3314 | 5015 | 65048 |
| Mussels, freshwater... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3773 | 0 | 0 | 0 | 3773 |
| Octopus..... | 1185 | 1224 | 596 | 1100 | 805 | 1363 | 1115 | 986 | 725 | 303 | 270 | 5646 | 15318 |
| Scallops, rock..... | 0 | 125 | 0 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 220 |
| Squid..... | 0 | 0 | 0 | 0 | 95994 | 0 | 0 | 0 | 20 | 0 | 11 | 0 | 96025 |

TABLE 5. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH IN OREGON, 1989. (CONT.)

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|----------------------|----------|----------|---------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|-----------|
| OTHER INVERTEBRATES: | | | | | | | | | | | | | |
| Sea urchin, red..... | 217509 | 357516 | 217559 | 744209 | 856590 | 865345 | 819323 | 818713 | 1149794 | 698257 | 461567 | 636276 | 7842658 |
| Bloodworms..... | 0 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| Worms, tube..... | 0 | 0 | 60 | 0 | 893 | 775 | 210 | 0 | 0 | 0 | 0 | 0 | 1938 |
| TOTAL | 11489738 | 10183419 | 7230544 | 18321566 | 18961061 | 15547936 | 15066472 | 19627025 | 20046032 | 13620762 | 4600362 | 10928735 | 165623652 |

TABLE 6. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH FROM THE COLUMBIA RIVER, 1989. 1/

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|-----------------------------|---------|----------|--------|-------|-------|-------|------|---------|-----------|---------|----------|----------|---------|
| <u>BELOW BONNEVILLE DAM</u> | | | | | | | | | | | | | |
| FISH: | | | | | | | | | | | | | |
| Anchovy, northern..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 30 |
| Flounder, starry..... | 0 | 213 | 913 | 0 | 0 | 0 | 0 | 1392 | 9790 | 994 | 1 | 0 | 13303 |
| Salmon, chinook..... | 0 | 85779 | 90960 | 0 | 0 | 0 | 0 | 809681 | 1197677 | 239583 | 42308 | 0 | 2465988 |
| Salmon, chum..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 2553 | 1098 | 0 | 3666 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4400 | 435974 | 982059 | 114803 | 0 | 1537236 |
| Shad, American..... | 0 | 0 | 0 | 0 | 70900 | 71737 | 1188 | 0 | 0 | 0 | 0 | 0 | 143825 |
| Smelt (eulachon)..... | 0 | 200 | 19768 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19968 |
| Sturgeon, green..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 280 | 3162 | 340 | 58 | 0 | 3840 |
| Sturgeon, white..... | 0 | 5060 | 3103 | 0 | 0 | 0 | 0 | 62778 | 31471 | 14142 | 5261 | 0 | 121815 |
| TOTAL | 0 | 91252 | 114744 | 0 | 70900 | 71737 | 1188 | 878531 | 1678119 | 1239671 | 163529 | 0 | 4309671 |
| <u>ABOVE BONNEVILLE DAM</u> | | | | | | | | | | | | | |
| FISH: | | | | | | | | | | | | | |
| Salmon, chinook..... | 0 | 0 | 0 | 708 | 0 | 0 | 0 | 257200 | 824306 | 0 | 0 | 0 | 1082214 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 149 | 4387 | 0 | 0 | 0 | 4536 |
| Salmon, sockeye..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 | 7 | 0 | 0 | 0 | 59 |
| Steelhead..... | 0 | 4754 | 37111 | 0 | 0 | 0 | 0 | 53056 | 157178 | 0 | 0 | 0 | 252099 |
| Sturgeon, white..... | 898 | 24054 | 51932 | 1295 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 78179 |
| Walleye..... | 0 | 137 | 5218 | 0 | 0 | 0 | 0 | 795 | 915 | 0 | 0 | 0 | 7065 |
| TOTAL | 898 | 28945 | 94261 | 2003 | 0 | 0 | 0 | 311252 | 986793 | 0 | 0 | 0 | 1424152 |
| TOTAL | 898 | 120197 | 209005 | 2003 | 70900 | 71737 | 1188 | 1189783 | 2664912 | 1239671 | 163529 | 0 | 5733823 |

1/ OREGON LANDINGS ONLY.

TABLE 7. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT ASTORIA, 1989. 1/ 2/

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|--------|---------|--------|--------|--------|--------|-----------|---------|----------|----------|---------|
| FISH: | | | | | | | | | | | | | |
| Cod, Pacific..... | 29099 | 26807 | 18598 | 140075 | 172257 | 179109 | 283617 | 228575 | 125500 | 32922 | 10882 | 60660 | 1308101 |
| Flounder, arrowtooth.. | 80791 | 111652 | 72018 | 102796 | 141988 | 281967 | 375840 | 303915 | 227783 | 126306 | 91031 | 101300 | 2017387 |
| Flounder, starry..... | 0 | 2513 | 430 | 8230 | 155688 | 62133 | 17986 | 47408 | 26873 | 1361 | 755 | 479 | 323856 |
| Hagfish sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 55067 | 11730 | 0 | 33183 | 62597 | 32628 | 195205 |
| Halibut, Pacific..... | 0 | 0 | 0 | 0 | 14435 | 132566 | 140 | 55023 | 262981 | 181760 | 0 | 0 | 646905 |
| Lingcod..... | 19033 | 22907 | 14386 | 31295 | 77137 | 146527 | 116014 | 199390 | 230555 | 145318 | 40683 | 55581 | 1098826 |
| Mackerel, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 16 | 0 | 0 | 0 | 60 |
| Pacific Ocean perch... | 64009 | 74704 | 77750 | 142292 | 178885 | 182864 | 182973 | 103996 | 117546 | 75350 | 29015 | 0 | 1229384 |
| Nominal POP..... | 30266 | 16059 | 4957 | 8123 | 50692 | 83243 | 126573 | 125128 | 104002 | 51775 | 30930 | 44330 | 676078 |
| Rockfish, widow..... | 609727 | 707573 | 382477 | 517345 | 159992 | 255728 | 291127 | 394805 | 463063 | 197451 | 20702 | 66256 | 4066246 |
| Rockfish, yellowtail.. | 167371 | 153479 | 182340 | 306256 | 359074 | 359880 | 332738 | 222186 | 362647 | 152850 | 40824 | 95084 | 2734729 |
| Rockfish, other sp.... | 219548 | 203843 | 234511 | 563743 | 571408 | 624937 | 490844 | 584249 | 616902 | 549399 | 206164 | 199894 | 5065442 |
| Thornyhead sp..... | 85756 | 65450 | 95393 | 170924 | 119342 | 128393 | 101079 | 91269 | 57862 | 116389 | 95394 | 146509 | 1273760 |
| Sablefish..... | 160138 | 141340 | 176134 | 323013 | 206471 | 186516 | 177995 | 192544 | 175158 | 167544 | 166034 | 269955 | 2342842 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 18682 | 10142 | 5091 | 11852 | 9478 | 74 | 0 | 0 | 55319 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 16134 | 51941 | 46081 | 0 | 0 | 0 | 114156 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 0 | 18 | 211 | 7 | 7 | 0 | 0 | 0 | 243 |
| Sanddab, Pacific..... | 1278 | 8043 | 1129 | 15083 | 11916 | 5124 | 11876 | 8883 | 7001 | 3217 | 1005 | 8175 | 82730 |
| Shad, American..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 0 | 0 | 0 | 35 |
| Shark, soupfin..... | 40 | 0 | 0 | 28 | 0 | 177 | 830 | 347 | 27 | 0 | 120 | 447 | 2016 |
| Shark, spiny dogfish.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 490 | 0 | 10 | 500 |
| Shark, thresher..... | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| Shark, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 122 | 0 | 0 | 0 | 0 | 122 |
| Skates and rays..... | 0 | 260 | 0 | 0 | 0 | 0 | 8 | 0 | 165 | 0 | 120 | 0 | 553 |
| Sole, Dover..... | 580150 | 601009 | 823428 | 1456590 | 692736 | 429074 | 515936 | 642327 | 738626 | 636546 | 678565 | 1014820 | 8809807 |
| Sole, English..... | 28284 | 88336 | 13594 | 34402 | 75248 | 124345 | 175753 | 95522 | 96606 | 41901 | 23976 | 40637 | 838604 |
| Sole, flathead..... | 0 | 0 | 0 | 0 | 7 | 203 | 867 | 714 | 0 | 5423 | 0 | 0 | 7214 |
| Sole, petrale..... | 143819 | 95464 | 44929 | 69034 | 34798 | 39235 | 44040 | 39170 | 56695 | 30639 | 28105 | 115961 | 741889 |
| Sole, rex..... | 20174 | 34708 | 13569 | 36826 | 36977 | 46071 | 52723 | 48663 | 64964 | 31046 | 10622 | 17056 | 413399 |

TABLE 7. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT ASTORIA, 1989. 1/ 2/ (CONT.)

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|---------|---------|---------|---------|---------|---------|-----------|---------|----------|----------|----------|
| Sole, sand..... | 0 | 1081 | 1540 | 6528 | 35635 | 31193 | 29697 | 82776 | 45032 | 4010 | 1130 | 3229 | 241851 |
| Sturgeon, green..... | 0 | 29 | 0 | 126 | 408 | 799 | 182 | 169 | 113 | 226 | 76 | 0 | 2128 |
| Sturgeon, white..... | 0 | 0 | 0 | 0 | 0 | 25 | 20 | 67 | 0 | 0 | 42 | 0 | 154 |
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 13855 | 88372 | 276469 | 63936 | 1510 | 0 | 444142 |
| Whiting, Pac. (hake).. | 0 | 0 | 0 | 4265 | 6240 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10505 |
| Wolf-eel..... | 0 | 0 | 0 | 76 | 426 | 533 | 188 | 299 | 196 | 86 | 0 | 0 | 1804 |
| Wrymouth, giant..... | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 25 | 0 | 0 | 20 | 17 | 85 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, Dungeness, ocean | 1544756 | 761572 | 242977 | 343692 | 234450 | 94841 | 102903 | 31556 | 0 | 0 | 0 | 1082425 | 4439172 |
| Shrimp, pink..... | 0 | 0 | 0 | 1469047 | 2073841 | 1817147 | 1050369 | 1719984 | 1259031 | 842414 | 0 | 0 | 10231833 |
| Shrimp, spot..... | 0 | 0 | 0 | 0 | 0 | 0 | 74 | 0 | 0 | 0 | 0 | 0 | 74 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Octopus..... | 0 | 295 | 115 | 360 | 498 | 672 | 516 | 385 | 438 | 106 | 35 | 20 | 3440 |
| TOTAL | 3784269 | 3117124 | 2400275 | 5750149 | 5429231 | 5223462 | 4573289 | 5383443 | 5371852 | 3491722 | 1540337 | 3355473 | 49420626 |

1/ OCEAN LANDINGS ONLY; SEE TABLE 6 FOR COLUMBIA RIVER LANDINGS

2/ INCLUDES LANDINGS AT WARRENTON AND HAMMOND.

TABLE 7A. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT SEASIDE/GEARHART, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|-------|-------|------|------|------|--------|-----------|---------|----------|----------|-------|
| FISH: | | | | | | | | | | | | | |
| Rockfish, other sp.... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 5 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1138 | 253 | 0 | 0 | 0 | 1391 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5204 | 2420 | 0 | 0 | 0 | 7624 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Clams, razor..... | 2162 | 1457 | 2222 | 8417 | 7845 | 4555 | 1056 | 0 | 723 | 1621 | 1271 | 848 | 32177 |
| TOTAL | 2162 | 1457 | 2222 | 8417 | 7845 | 4555 | 1056 | 6347 | 3396 | 1621 | 1271 | 848 | 41197 |

TABLE 7B. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT CANNON BEACH, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|-------|
| FISH: | | | | | | | | | | | | | |
| Lingcod..... | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 8 |
| Rockfish, other sp.... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 0 | 0 | 367 | 298 | 252 | 0 | 0 | 0 | 917 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 7555 | 1760 | 1231 | 0 | 0 | 0 | 10546 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 10 | 0 | 0 | 0 | 0 | 45 |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | 7965 | 2071 | 1483 | 0 | 0 | 0 | 11519 |

TABLE 8. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT NEHALEM BAY, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|-------|-------|------|------|------|--------|-----------|---------|----------|----------|-------|
| CRUSTACEANS: | | | | | | | | | | | | | |
| Shrimp, ghost..... | 54 | 110 | 497 | 275 | 1610 | 950 | 318 | 324 | 764 | 1359 | 591 | 99 | 6951 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Clams, littleneck..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 | 0 | 0 | 80 |
| TOTAL | 54 | 110 | 497 | 275 | 1610 | 950 | 318 | 324 | 764 | 1439 | 591 | 99 | 7031 |

TABLE 9. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT GARIBALDI, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|-------|--------|-------|-------|--------|--------|-----------|---------|----------|----------|---------|
| FISH: | | | | | | | | | | | | | |
| Cabezon..... | 0 | 0 | 0 | 4 | 17 | 0 | 0 | 268 | 763 | 18 | 19 | 0 | 1089 |
| Cod, Pacific..... | 21544 | 7141 | 323 | 5398 | 12655 | 23837 | 21092 | 30688 | 5978 | 2472 | 4223 | 564 | 135915 |
| Flounder, arrowtooth.. | 1521 | 25935 | 9745 | 14327 | 4624 | 5670 | 7814 | 2304 | 23240 | 26088 | 38196 | 15049 | 174513 |
| Flounder, starry..... | 0 | 0 | 0 | 0 | 71 | 0 | 1607 | 6456 | 6654 | 177 | 0 | 0 | 14965 |
| Halibut, Pacific..... | 0 | 0 | 0 | 0 | 12451 | 150 | 0 | 0 | 31539 | 0 | 0 | 0 | 44140 |
| Lingcod..... | 10536 | 8411 | 1480 | 14390 | 43374 | 12066 | 17978 | 11464 | 13427 | 39382 | 7034 | 10380 | 189922 |
| Mackerel, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 1063 | 456 | 2 | 10 | 0 | 0 | 1531 |
| Pacific Ocean perch... | 3507 | 2336 | 0 | 0 | 1000 | 0 | 31 | 242 | 0 | 0 | 0 | 104 | 7220 |
| Nominal POP..... | 29143 | 116578 | 30821 | 84758 | 63164 | 50334 | 75420 | 52954 | 72326 | 60790 | 14562 | 57923 | 708773 |
| Rockfish, widow..... | 32581 | 14194 | 13087 | 123437 | 51419 | 16372 | 6409 | 3835 | 11528 | 8061 | 1735 | 515 | 283173 |
| Rockfish, yellowtail.. | 20241 | 33321 | 6125 | 38106 | 71399 | 34845 | 3654 | 4733 | 10182 | 1367 | 9052 | 8763 | 241788 |
| Rockfish, other sp.... | 37378 | 38503 | 2722 | 53502 | 56380 | 27128 | 29064 | 37421 | 22467 | 35686 | 13886 | 18705 | 372842 |
| Thornyhead sp..... | 2318 | 6817 | 5362 | 13829 | 6164 | 1851 | 4780 | 6376 | 6160 | 8796 | 7325 | 12953 | 82731 |
| Sablefish..... | 12022 | 16491 | 17653 | 22200 | 20272 | 11007 | 12826 | 15087 | 19344 | 30530 | 28496 | 22018 | 227946 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 38131 | 56780 | 41316 | 28071 | 87555 | 26638 | 0 | 0 | 278491 |
| Salmon, chum..... | 0 | 0 | 0 | 0 | 16 | 0 | 43 | 0 | 0 | 0 | 0 | 0 | 59 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 306405 | 43498 | 320 | 0 | 0 | 0 | 350223 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 112 | 465 | 2576 | 1092 | 0 | 0 | 0 | 0 | 4245 |
| Sanddab, Pacific..... | 0 | 0 | 0 | 1143 | 741 | 562 | 620 | 605 | 2099 | 1337 | 1351 | 0 | 8458 |
| Shad, American..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 6 |
| Shark, soupfin..... | 0 | 32 | 0 | 0 | 0 | 0 | 18 | 0 | 27 | 0 | 0 | 0 | 77 |
| Shark, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 22 |
| Skates and rays..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1137 | 140 | 0 | 0 | 0 | 1277 |
| Sole, butter..... | 0 | 0 | 0 | 0 | 63 | 0 | 0 | 1227 | 5 | 0 | 0 | 0 | 1295 |
| Sole, curlfin (turbot) | 0 | 0 | 0 | 0 | 71 | 0 | 0 | 43 | 0 | 0 | 0 | 0 | 114 |
| Sole, Dover..... | 38352 | 60899 | 55689 | 160627 | 65407 | 33442 | 36160 | 68725 | 91472 | 106713 | 215998 | 94359 | 1027843 |
| Sole, English..... | 698 | 1897 | 426 | 3433 | 2708 | 4375 | 4076 | 11623 | 10666 | 4967 | 14251 | 334 | 59454 |
| Sole, flathead..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 0 | 0 | 38 |
| Sole, petrale..... | 6531 | 24399 | 22738 | 3188 | 1665 | 5478 | 7898 | 6741 | 6215 | 4570 | 6966 | 19855 | 116244 |

TABLE 9. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT GARIBALDI, 1989.

(CONT.)

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|--------|---------|--------|--------|--------|--------|-----------|---------|----------|----------|---------|
| Sole, rex..... | 807 | 3414 | 852 | 4222 | 1879 | 1856 | 4522 | 4218 | 2167 | 1663 | 1355 | 1340 | 28295 |
| Sole, sand..... | 0 | 0 | 0 | 0 | 619 | 61 | 0 | 26994 | 15425 | 712 | 22 | 0 | 43833 |
| Sturgeon, green..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 227 | 315 | 20 | 0 | 0 | 562 |
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 424 | 0 | 0 | 0 | 0 | 0 | 424 |
| Wolf-eel..... | 0 | 0 | 0 | 0 | 104 | 5 | 7 | 355 | 497 | 89 | 7 | 0 | 1064 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, Dungeness, bay.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 18 | 24 |
| Crab, Dungeness, ocean | 113115 | 99989 | 50116 | 74295 | 71153 | 33332 | 26101 | 7075 | 0 | 0 | 0 | 109477 | 584653 |
| Shrimp, ghost..... | 159 | 64 | 370 | 1014 | 1416 | 1461 | 1540 | 1346 | 1074 | 1110 | 758 | 305 | 10617 |
| Shrimp, mud..... | 3140 | 1379 | 2577 | 1385 | 336 | 255 | 180 | 211 | 410 | 526 | 1319 | 1658 | 13376 |
| Shrimp, pink..... | 0 | 0 | 0 | 380222 | 446728 | 390751 | 131879 | 367902 | 334632 | 188864 | 0 | 0 | 2240978 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Clams, butter..... | 0 | 0 | 0 | 505 | 570 | 0 | 180 | 0 | 0 | 0 | 40 | 0 | 1295 |
| Clams, cockle..... | 4586 | 4525 | 5000 | 10490 | 583 | 7110 | 0 | 3270 | 700 | 300 | 61 | 5700 | 42325 |
| Clams, gaper..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 100 |
| Clams, littleneck..... | 47 | 54 | 75 | 539 | 285 | 142 | 764 | 1432 | 1496 | 899 | 149 | 48 | 5930 |
| Octopus..... | 0 | 37 | 100 | 40 | 19 | 238 | 77 | 197 | 79 | 57 | 10 | 18 | 872 |
| Squid..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 11 |
| OTHER INVERTEBRATES: | | | | | | | | | | | | | |
| TOTAL | 338226 | 466416 | 225261 | 1011054 | 975596 | 719573 | 746524 | 748295 | 778910 | 551880 | 366932 | 380086 | 7308753 |

TABLE 10. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT NETARTS BAY, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| FISH: | | | | | | | | | | | | | |
| Rockfish, other sp.... | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 28 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 0 | 0 | 204 | 0 | 0 | 60 | 0 | 0 | 264 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 3616 | 110 | 0 | 0 | 0 | 0 | 3726 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Barnacle, gooseneck... | 90 | 250 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 340 |
| Shrimp, mud..... | 4529 | 3021 | 2935 | 1790 | 800 | 588 | 544 | 1002 | 1034 | 1286 | 3567 | 5175 | 26271 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Mussels, ocean..... | 600 | 750 | 0 | 300 | 0 | 550 | 0 | 0 | 300 | 0 | 0 | 0 | 2500 |
| TOTAL | 5219 | 4021 | 2935 | 2090 | 800 | 1138 | 4392 | 1112 | 1334 | 1346 | 3567 | 5175 | 33129 |

TABLE 11. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT PACIFIC CITY, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|------------|------------|-------------|--------------|--------------|-------------|---------------|--------------|--------------|-------------|------------|------------|---------------|
| FISH: | | | | | | | | | | | | | |
| Cabezon..... | 0 | 6 | 143 | 316 | 187 | 47 | 38 | 97 | 0 | 9 | 38 | 0 | 881 |
| Halibut, Pacific..... | 0 | 0 | 0 | 0 | 0 | 270 | 0 | 0 | 0 | 0 | 0 | 0 | 270 |
| Lingcod..... | 0 | 903 | 3974 | 6893 | 1697 | 665 | 1777 | 2597 | 566 | 1838 | 494 | 0 | 21404 |
| Mackerel, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 2331 | 463 | 0 | 0 | 0 | 0 | 2794 |
| Rockfish, other sp.... | 0 | 0 | 1474 | 6170 | 8404 | 4240 | 5472 | 8482 | 2491 | 1603 | 22 | 0 | 38358 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 2331 | 1514 | 24359 | 20462 | 16995 | 3003 | 0 | 0 | 68664 |
| Salmon, chum..... | 0 | 0 | 0 | 0 | 58 | 0 | 16 | 18 | 0 | 0 | 0 | 0 | 92 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 205919 | 46771 | 3252 | 0 | 0 | 0 | 255942 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 0 | 0 | 2527 | 932 | 0 | 0 | 0 | 0 | 3459 |
| Wolf-eel..... | 0 | 0 | 0 | 0 | 8 | 12 | 61 | 6 | 0 | 0 | 0 | 0 | 87 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, Dungeness, ocean | 0 | 0 | 0 | 0 | 84 | 97 | 0 | 85 | 0 | 0 | 0 | 0 | 266 |
| Shrimp, ghost..... | 146 | 86 | 158 | 213 | 424 | 402 | 652 | 888 | 1123 | 1515 | 423 | 257 | 6287 |
| TOTAL | 146 | 995 | 5749 | 13592 | 13193 | 7247 | 243152 | 80801 | 24427 | 7968 | 977 | 257 | 398504 |

TABLE 11A. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT SALMON RIVER, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|----------|----------|----------|----------|----------|----------|--------------|----------|-----------|----------|----------|----------|--------------|
| FISH: | | | | | | | | | | | | | |
| Rockfish, other sp.... | 0 | 0 | 0 | 0 | 0 | 0 | 62 | 0 | 0 | 0 | 0 | 0 | 62 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 0 | 0 | 1290 | 0 | 0 | 0 | 0 | 0 | 1290 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 31318 | 0 | 0 | 0 | 0 | 0 | 31318 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 0 | 0 | 147 | 0 | 0 | 0 | 0 | 0 | 147 |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | 32817 | 0 | 0 | 0 | 0 | 0 | 32817 |

TABLE 12. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT SILETZ BAY, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|---------------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|------------|
| CRUSTACEANS: | | | | | | | | | | | | | |
| Shrimp, ghost..... | 0 | 0 | 20 | 20 | 15 | 30 | 35 | 76 | 136 | 72 | 14 | 18 | 436 |
| TOTAL | 0 | 0 | 20 | 20 | 15 | 30 | 35 | 76 | 136 | 72 | 14 | 18 | 436 |

TABLE 13. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT DEPOE BAY, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|-----------------------------|--------------|--------------|-------------|--------------|--------------|--------------|---------------|--------------|-------------|-------------|------------|-------------|---------------|
| FISH: | | | | | | | | | | | | | |
| Cabezon..... | 401 | 278 | 223 | 3204 | 4518 | 294 | 607 | 207 | 22 | 33 | 262 | 0 | 10049 |
| Flounder, arrowtooth.. | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 5 |
| Flounder, starry..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| Greenling sp..... | 0 | 0 | 0 | 2 | 31 | 47 | 40 | 29 | 0 | 0 | 0 | 0 | 149 |
| Halibut, Pacific..... | 0 | 0 | 0 | 0 | 0 | 1824 | 0 | 0 | 0 | 0 | 0 | 0 | 1824 |
| Lingcod..... | 141 | 1774 | 1690 | 4833 | 4122 | 1013 | 1518 | 655 | 547 | 189 | 392 | 274 | 17148 |
| Mackerel, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 1300 | 45 | 0 | 0 | 0 | 0 | 1345 |
| Rockfish, yellowtail.. | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Rockfish, other sp.... | 128 | 551 | 2201 | 10620 | 9026 | 6487 | 13108 | 5134 | 268 | 181 | 66 | 90 | 47860 |
| Sablefish..... | 0 | 1609 | 0 | 5305 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 6928 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 2747 | 1316 | 6110 | 3303 | 1442 | 2020 | 0 | 0 | 16938 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 99143 | 1981 | 0 | 0 | 0 | 0 | 101124 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 0 | 0 | 392 | 47 | 0 | 0 | 0 | 0 | 439 |
| Shark, sixgill..... | 0 | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| Shark, soupfin..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 30 |
| Shark, spiny dogfish.. | 0 | 0 | 0 | 18 | 4 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 34 |
| Sole, Dover..... | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 4 |
| Surfperch spp..... | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Wolf-eel..... | 12 | 14 | 20 | 267 | 516 | 108 | 0 | 0 | 0 | 0 | 0 | 0 | 937 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Barnacle, gooseneck... | 0 | 0 | 0 | 52 | 130 | 15 | 0 | 15 | 4 | 5 | 0 | 0 | 221 |
| Crab, Dungeness, ocean | 23566 | 13354 | 5207 | 6170 | 2530 | 1954 | 380 | 0 | 0 | 0 | 0 | 8399 | 61560 |
| Crab, rock..... | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Mussels, ocean..... | 0 | 0 | 60 | 295 | 311 | 338 | 575 | 264 | 203 | 126 | 196 | 105 | 2473 |
| Octopus..... | 48 | 0 | 107 | 164 | 10 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 337 |
| OTHER INVERTEBRATES: | | | | | | | | | | | | | |
| Sea urchin, red..... | 0 | 0 | 0 | 0 | 0 | 0 | 9313 | 0 | 0 | 0 | 0 | 0 | 9313 |
| TOTAL | 24296 | 17584 | 9509 | 30931 | 23949 | 13440 | 132504 | 11696 | 2486 | 2554 | 946 | 8868 | 278763 |

TABLE 14. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT NEWPORT, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|---------|---------|--------|--------|--------|--------|-----------|---------|----------|----------|---------|
| FISH: | | | | | | | | | | | | | |
| Cabezon..... | 0 | 7 | 0 | 112 | 235 | 28 | 379 | 106 | 438 | 0 | 0 | 312 | 1617 |
| Cod, Pacific..... | 7502 | 718 | 4 | 1240 | 8069 | 38013 | 31643 | 159150 | 12142 | 2970 | 180 | 335 | 261966 |
| Flounder, arrowtooth.. | 6490 | 5536 | 15078 | 5297 | 14471 | 16364 | 23219 | 19229 | 10063 | 28171 | 12886 | 4676 | 161480 |
| Flounder, starry..... | 282 | 1246 | 1567 | 249 | 11024 | 22711 | 23055 | 561 | 8436 | 306 | 7 | 185 | 69629 |
| Greenling sp..... | 1 | 0 | 0 | 15 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 20 |
| Hagfish sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 82396 | 66586 | 0 | 0 | 148982 |
| Halibut, Pacific..... | 0 | 200 | 0 | 0 | 471 | 123440 | 4527 | 57 | 19275 | 298 | 23 | 49 | 148340 |
| Herring, Pacific..... | 0 | 529241 | 138 | 16734 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 546115 |
| Irish Lord, brown..... | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Irish Lord, red..... | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Lingcod..... | 6745 | 12663 | 15432 | 32202 | 47986 | 46325 | 125768 | 101784 | 120572 | 28682 | 12657 | 13064 | 563880 |
| Mackerel, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 817 | 3816 | 10 | 0 | 0 | 0 | 4643 |
| Ratfish..... | 0 | 0 | 0 | 0 | 0 | 0 | 76 | 34 | 0 | 0 | 0 | 0 | 110 |
| Pacific Ocean perch... | 25026 | 47849 | 22277 | 22642 | 15322 | 18595 | 24794 | 23330 | 23403 | 12175 | 5086 | 0 | 240499 |
| Nominal POP..... | 244080 | 211059 | 81610 | 84568 | 25013 | 52656 | 64824 | 97120 | 42152 | 31637 | 16503 | 38349 | 989571 |
| Rockfish, widow..... | 2001541 | 1855165 | 1708502 | 1274158 | 137046 | 55025 | 402267 | 500996 | 451730 | 194596 | 22268 | 35712 | 8639006 |
| Rockfish, yellowtail.. | 53781 | 66677 | 35861 | 45051 | 30483 | 33947 | 43503 | 44498 | 40520 | 19027 | 12145 | 14779 | 440272 |
| Rockfish, other sp.... | 216966 | 291303 | 97633 | 291797 | 332014 | 223004 | 306191 | 521444 | 397313 | 230067 | 158543 | 245049 | 3311324 |
| Thornyhead sp..... | 35829 | 33898 | 25754 | 16773 | 26371 | 10134 | 40230 | 44414 | 17935 | 54268 | 23437 | 33078 | 362121 |
| Sablefish..... | 37793 | 42541 | 28031 | 95366 | 297645 | 370703 | 373537 | 110969 | 88195 | 114986 | 41493 | 31257 | 1632516 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 249858 | 169037 | 246425 | 109894 | 45574 | 51697 | 3261 | 0 | 875746 |
| Salmon, chum..... | 0 | 0 | 0 | 0 | 77 | 133 | 31 | 0 | 0 | 0 | 0 | 0 | 241 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 532198 | 42547 | 0 | 0 | 0 | 0 | 574745 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 13 | 113 | 3210 | 848 | 0 | 0 | 0 | 0 | 4184 |
| Sanddab, Pacific..... | 13542 | 15126 | 5605 | 4173 | 0 | 0 | 1574 | 6565 | 5317 | 1080 | 0 | 3300 | 56282 |
| Sculpin, buffalo..... | 0 | 0 | 0 | 5 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| Sculpin, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| Shark, sixgill..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 0 | 40 |
| Shark, soupfin..... | 0 | 186 | 0 | 0 | 0 | 273 | 12 | 19 | 0 | 110 | 0 | 0 | 600 |

TABLE 14. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT NEWPORT, 1989.

(CONT.)

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|-------|---------|---------|---------|---------|---------|-----------|---------|----------|----------|----------|
| Shark, spiny dogfish.. | 0 | 0 | 0 | 0 | 0 | 53 | 77 | 31 | 3 | 0 | 0 | 0 | 164 |
| Shark, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 15 |
| Skates and rays..... | 675 | 1386 | 837 | 0 | 272 | 799 | 665 | 668 | 711 | 0 | 72 | 111 | 6196 |
| Sole, curlfin (turbot) | 0 | 0 | 0 | 21 | 2401 | 52 | 1 | 0 | 0 | 0 | 0 | 7 | 2482 |
| Sole, Dover..... | 127831 | 90367 | 58649 | 33263 | 68612 | 58834 | 177184 | 153882 | 232946 | 409953 | 216864 | 144662 | 1773047 |
| Sole, English..... | 8135 | 19136 | 4838 | 5567 | 15727 | 25567 | 35564 | 56657 | 72357 | 30892 | 7023 | 8699 | 290162 |
| Sole, petrale..... | 41694 | 17477 | 4345 | 1803 | 5555 | 12646 | 66531 | 79375 | 59457 | 26821 | 12001 | 26843 | 354548 |
| Sole, rex..... | 9120 | 20409 | 7080 | 3573 | 2678 | 5916 | 6197 | 7426 | 14892 | 9177 | 2568 | 4902 | 93938 |
| Sole, rock..... | 0 | 0 | 0 | 0 | 263 | 157 | 17 | 4 | 0 | 2 | 80 | 1 | 524 |
| Sole, sand..... | 1707 | 962 | 1742 | 1700 | 32703 | 50532 | 11352 | 383 | 12870 | 1100 | 39 | 5 | 115095 |
| Sturgeon, green..... | 231 | 123 | 194 | 0 | 1137 | 1087 | 84 | 0 | 432 | 30 | 0 | 115 | 3433 |
| Sturgeon, white..... | 53 | 0 | 0 | 0 | 0 | 271 | 0 | 0 | 0 | 0 | 0 | 0 | 324 |
| Surfperch spp..... | 25 | 1 | 0 | 18 | 5 | 328 | 287 | 518 | 0 | 0 | 0 | 0 | 1182 |
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 18622 | 83231 | 126834 | 31921 | 5833 | 0 | 266441 |
| Whiting, Pac. (hake).. | 0 | 0 | 0 | 60849 | 0 | 0 | 0 | 0 | 49168 | 42129 | 31882 | 0 | 184028 |
| Wolf-eel..... | 0 | 32 | 44 | 223 | 322 | 102 | 21 | 26 | 11 | 0 | 0 | 57 | 838 |
| Wrymouth, giant..... | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 15 | 0 | 0 | 0 | 0 | 25 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, box..... | 18 | 0 | 0 | 0 | 0 | 0 | 49 | 28 | 304 | 0 | 0 | 13 | 412 |
| Crab, Dungeness, bay.. | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 602 | 481 | 7 | 0 | 1092 |
| Crab, Dungeness, ocean | 637200 | 215345 | 99146 | 88265 | 53568 | 14540 | 15932 | 2962 | 0 | 0 | 0 | 1531231 | 2658189 |
| Crab, rock..... | 763 | 810 | 902 | 215 | 549 | 127 | 203 | 104 | 79 | 20 | 125 | 136 | 4033 |
| Crab, Tanner..... | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 12 | 0 | 0 | 0 | 0 | 16 |
| Shrimp, pink..... | 0 | 0 | 0 | 3137197 | 3659089 | 2247740 | 1056304 | 3199856 | 2892316 | 2171063 | 0 | 0 | 18363565 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Clams, gaper..... | 100 | 550 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 200 | 780 | 960 | 2590 |
| Clams, softshell..... | 0 | 0 | 0 | 0 | 200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 200 |
| Mussels, ocean..... | 0 | 2000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 2030 |
| Octopus..... | 295 | 61 | 142 | 185 | 80 | 63 | 408 | 335 | 173 | 45 | 11 | 206 | 2004 |

TABLE 14. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT NEWPORT, 1989.

(CONT.)

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|----------------------|---------|----------|---------|---------|---------|---------|---------|---------|-----------|---------|----------|----------|----------|
| Squid..... | 0 | 0 | 0 | 0 | 95994 | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 96014 |
| OTHER INVERTEBRATES: | | | | | | | | | | | | | |
| Sea urchin, red..... | 0 | 0 | 0 | 0 | 0 | 0 | 63883 | 0 | 1505 | 12503 | 4338 | 6764 | 88993 |
| TOTAL | 3477425 | 3482074 | 2215411 | 5223265 | 5135260 | 3599315 | 3701697 | 5372935 | 4830151 | 3573023 | 590112 | 2144857 | 43345525 |

TABLE 15. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT WALDPOR, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|-------|-------|------|------|------|--------|-----------|---------|----------|----------|-------|
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, Dungeness, bay.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5391 | 5969 | 3689 | 299 | 15348 |
| Shrimp, ghost..... | 2550 | 1674 | 1869 | 3115 | 4606 | 4996 | 3261 | 2922 | 3455 | 5088 | 1604 | 1072 | 36212 |
| Shrimp, mud..... | 767 | 321 | 102 | 34 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1248 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Clams, cockle..... | 0 | 0 | 130 | 288 | 0 | 0 | 0 | 0 | 0 | 0 | 320 | 180 | 918 |
| Clams, softshell..... | 0 | 0 | 0 | 0 | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 75 |
| Mussels, ocean..... | 0 | 150 | 0 | 180 | 0 | 0 | 0 | 50 | 0 | 100 | 0 | 0 | 480 |
| TOTAL | 3317 | 2145 | 2101 | 3617 | 4705 | 4996 | 3261 | 2972 | 8846 | 11157 | 5613 | 1551 | 54281 |

TABLE 16. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT FLORENCE, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|--------------|-------------|-------------|------------|--------------|----------------|
| FISH: | | | | | | | | | | | | | |
| Lingcod..... | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 137 | 313 | 2 | 0 | 0 | 485 |
| Rockfish, widow..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 92 | 80 | 0 | 0 | 0 | 172 |
| Rockfish, yellowtail.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 160 | 0 | 0 | 0 | 160 |
| Rockfish, other sp.... | 0 | 0 | 0 | 0 | 50 | 44 | 120 | 359 | 1499 | 480 | 0 | 0 | 2552 |
| Sablefish..... | 0 | 44418 | 26595 | 132609 | 170792 | 61637 | 80758 | 0 | 0 | 0 | 0 | 0 | 516809 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 11369 | 16229 | 114895 | 6539 | 1016 | 1071 | 0 | 0 | 151119 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 99815 | 3390 | 0 | 0 | 0 | 0 | 103205 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 0 | 15 | 74 | 6 | 0 | 0 | 0 | 0 | 95 |
| Shad, American..... | 0 | 0 | 0 | 0 | 1600 | 9830 | 203 | 0 | 0 | 0 | 0 | 0 | 11633 |
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 3101 | 2261 | 660 | 0 | 0 | 0 | 6022 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, Dungeness, bay.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2652 | 1127 | 102 | 0 | 3881 |
| Crab, Dungeness, ocean | 62316 | 28278 | 19466 | 17457 | 11901 | 4999 | 9294 | 3525 | 0 | 0 | 0 | 93394 | 250630 |
| Shrimp, ghost..... | 0 | 0 | 0 | 0 | 5 | 315 | 28 | 0 | 0 | 15 | 0 | 0 | 363 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Clams, softshell..... | 0 | 0 | 0 | 150 | 0 | 0 | 350 | 100 | 0 | 0 | 0 | 0 | 600 |
| Mussels, ocean..... | 0 | 0 | 365 | 200 | 565 | 200 | 225 | 0 | 0 | 0 | 0 | 0 | 1555 |
| TOTAL | 62316 | 72696 | 46426 | 150416 | 196282 | 93269 | 308896 | 16409 | 6380 | 2695 | 102 | 93394 | 1049281 |

TABLE 17. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT WINCHESTER BAY, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|-------|-------|--------|-------|--------|--------|-----------|---------|----------|----------|--------|
| FISH: | | | | | | | | | | | | | |
| Cabazon..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 65 | 0 | 0 | 0 | 65 |
| Cod, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 144 | 0 | 0 | 0 | 0 | 0 | 144 |
| Flounder, arrowtooth.. | 0 | 0 | 0 | 0 | 0 | 8 | 86 | 0 | 0 | 0 | 0 | 0 | 94 |
| Flounder, starry..... | 0 | 0 | 0 | 0 | 0 | 0 | 317 | 0 | 28 | 0 | 0 | 0 | 345 |
| Halibut, Pacific..... | 0 | 0 | 0 | 0 | 0 | 2469 | 28205 | 0 | 0 | 0 | 0 | 0 | 30674 |
| Herring, Pacific..... | 0 | 0 | 0 | 0 | 0 | 276 | 0 | 0 | 0 | 0 | 0 | 0 | 276 |
| Lingcod..... | 7 | 379 | 0 | 1869 | 221 | 0 | 293 | 243 | 1375 | 123 | 0 | 0 | 4510 |
| Nominal POP..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 215 | 0 | 0 | 215 |
| Rockfish, yellowtail.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 |
| Rockfish, other sp.... | 0 | 145 | 0 | 1194 | 1281 | 150 | 2137 | 1415 | 2041 | 737 | 0 | 0 | 9100 |
| Thornyhead sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 78 | 0 | 0 | 0 | 0 | 0 | 78 |
| Sablefish..... | 0 | 0 | 7932 | 46998 | 97807 | 86 | 18696 | 0 | 0 | 0 | 0 | 0 | 171519 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 131372 | 61962 | 134761 | 40861 | 5943 | 4026 | 0 | 0 | 378925 |
| Salmon, chum..... | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 190177 | 18324 | 0 | 0 | 0 | 0 | 208501 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 151 | 73 | 834 | 96 | 0 | 0 | 0 | 0 | 1154 |
| Shad, American..... | 0 | 0 | 0 | 0 | 13417 | 25600 | 0 | 0 | 0 | 0 | 0 | 0 | 39017 |
| Skates and rays..... | 0 | 0 | 0 | 70 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 73 |
| Sole, curlfin (turbot) | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| Sole, Dover..... | 0 | 0 | 0 | 0 | 0 | 0 | 67 | 0 | 21 | 0 | 0 | 0 | 88 |
| Sole, petrale..... | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 22 |
| Sole, sand..... | 0 | 0 | 0 | 0 | 0 | 0 | 596 | 0 | 150 | 0 | 0 | 0 | 746 |
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 2134 | 26813 | 15527 | 45919 | 0 | 0 | 90393 |
| Wolf-eel..... | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Wrymouth, giant..... | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 11 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, Dungeness, bay.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4280 | 1179 | 1795 | 0 | 7254 |
| Crab, Dungeness, ocean | 102733 | 47268 | 21958 | 13286 | 37502 | 14995 | 57970 | 32415 | 0 | 0 | 0 | 308684 | 636811 |
| Shrimp, pink..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34866 | 17291 | 24026 | 0 | 0 | 76183 |

TABLE 17. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT WINCHESTER BAY, 1989.

(CONT.)

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|---------------------|---------|----------|-------|-------|--------|--------|--------|--------|-----------|---------|----------|----------|---------|
| MOLLUSKS: | | | | | | | | | | | | | |
| Clams, cockle..... | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150 |
| Mussels, ocean..... | 5836 | 1020 | 5449 | 6270 | 8330 | 8683 | 3493 | 2926 | 1394 | 220 | 2818 | 4610 | 51049 |
| TOTAL | 108726 | 48812 | 35339 | 69687 | 290183 | 114305 | 440027 | 157959 | 48118 | 76445 | 4613 | 313294 | 1707508 |

TABLE 18. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT CHARLESTON, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|--------|--------|--------|--------|--------|--------|-----------|---------|----------|----------|---------|
| FISH: | | | | | | | | | | | | | |
| Cabezon..... | 0 | 0 | 0 | 102 | 314 | 0 | 0 | 0 | 14 | 0 | 0 | 5 | 435 |
| Cod, Pacific..... | 2646 | 169 | 493 | 26 | 1074 | 4099 | 1603 | 677 | 1208 | 1586 | 80 | 620 | 14281 |
| Flounder, arrowtooth.. | 6110 | 7218 | 4671 | 4349 | 10225 | 15771 | 25503 | 17191 | 24002 | 5560 | 12368 | 11649 | 144617 |
| Flounder, starry..... | 0 | 345 | 20 | 244 | 25 | 3158 | 7285 | 4180 | 1449 | 258 | 0 | 2919 | 19883 |
| Grenadier..... | 0 | 0 | 0 | 7843 | 0 | 0 | 0 | 931 | 9424 | 5225 | 1508 | 0 | 24931 |
| Halibut, Pacific..... | 0 | 0 | 0 | 0 | 0 | 23647 | 0 | 0 | 0 | 0 | 0 | 0 | 23647 |
| Lingcod..... | 9531 | 27415 | 19323 | 31073 | 48173 | 56091 | 61923 | 40922 | 94823 | 54997 | 9140 | 19091 | 472502 |
| Mackerel, Pacific..... | 0 | 0 | 0 | 0 | 0 | 36 | 31 | 3 | 0 | 0 | 0 | 0 | 70 |
| Pollock, walleye..... | 0 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| Pacific Ocean perch... | 9991 | 12068 | 3006 | 7306 | 13622 | 15339 | 13979 | 1783 | 1225 | 1943 | 0 | 0 | 80262 |
| Nominal POP..... | 49402 | 42445 | 33905 | 54363 | 46960 | 59819 | 52954 | 59990 | 57212 | 53661 | 32375 | 46375 | 589461 |
| Rockfish, widow..... | 528456 | 166418 | 69344 | 6066 | 40908 | 67065 | 90804 | 71286 | 183616 | 77240 | 7219 | 10498 | 1318920 |
| Rockfish, yellowtail.. | 120130 | 70023 | 25157 | 48464 | 44503 | 13933 | 18018 | 18065 | 69189 | 80694 | 3906 | 944 | 513026 |
| Rockfish, other sp.... | 236186 | 179794 | 80911 | 144213 | 162225 | 179728 | 152410 | 105170 | 178552 | 144418 | 75297 | 134185 | 1773089 |
| Thornyhead sp..... | 114472 | 219941 | 184846 | 103296 | 93345 | 56393 | 276084 | 189316 | 145041 | 146678 | 201190 | 314239 | 2044841 |
| Sablefish..... | 274128 | 184227 | 194524 | 339695 | 363430 | 309381 | 377055 | 159490 | 148092 | 131519 | 132912 | 195908 | 2810361 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 565497 | 316056 | 220584 | 340282 | 60171 | 57473 | 2902 | 0 | 1562965 |
| Salmon, chum..... | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 277871 | 108479 | 0 | 0 | 0 | 0 | 386350 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 1055 | 2097 | 1118 | 700 | 0 | 0 | 0 | 0 | 4970 |
| Sanddab, Pacific..... | 702 | 4103 | 1945 | 422 | 1325 | 1821 | 296 | 425 | 1219 | 96 | 0 | 0 | 12354 |
| Shark, sixgill..... | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Shark, soupfin..... | 0 | 139 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 139 |
| Skates and rays..... | 0 | 220 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 220 |
| Sole, curlfin (turbot) | 0 | 186 | 52 | 210 | 0 | 990 | 1297 | 83 | 0 | 0 | 0 | 0 | 2818 |
| Sole, Dover..... | 1085689 | 781596 | 625621 | 634245 | 510389 | 380435 | 372093 | 473891 | 523089 | 501456 | 398349 | 691852 | 6978705 |
| Sole, English..... | 25505 | 38425 | 18201 | 31484 | 22193 | 28226 | 27781 | 31093 | 35337 | 17977 | 11731 | 16363 | 304316 |
| Sole, petrale..... | 258774 | 76144 | 15517 | 10064 | 3871 | 4296 | 9366 | 18231 | 26104 | 14509 | 31379 | 148121 | 616376 |
| Sole, rex..... | 8461 | 7558 | 6902 | 2052 | 4104 | 3718 | 5064 | 0 | 186 | 1343 | 1595 | 5580 | 46563 |

TABLE 18. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT CHARLESTON, 1989.

(CONT.)

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|---------|---------|---------|---------|---------|---------|-----------|---------|----------|----------|----------|
| Sole, rock..... | 0 | 0 | 0 | 96 | 0 | 3336 | 1353 | 237 | 0 | 0 | 0 | 0 | 5022 |
| Sole, sand..... | 0 | 399 | 124 | 663 | 244 | 9881 | 30952 | 19245 | 5391 | 2541 | 0 | 0 | 69440 |
| Sturgeon, green..... | 0 | 0 | 0 | 0 | 0 | 315 | 163 | 106 | 99 | 0 | 0 | 0 | 683 |
| Surfperch spp..... | 0 | 0 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 3028 | 203441 | 24046 | 13262 | 0 | 0 | 243777 |
| Whiting, Pac. (hake).. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1381 | 0 | 1381 |
| Wolf-eel..... | 10 | 0 | 0 | 0 | 72 | 26 | 71 | 0 | 0 | 0 | 0 | 0 | 179 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, Dungeness, bay.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8434 | 12449 | 14378 | 494 | 35755 |
| Crab, Dungeness, ocean | 135740 | 86285 | 35927 | 27581 | 37005 | 9285 | 19937 | 19170 | 0 | 0 | 0 | 958693 | 1329623 |
| Shrimp, ghost..... | 119 | 298 | 550 | 815 | 832 | 937 | 1114 | 756 | 592 | 464 | 475 | 222 | 7174 |
| Shrimp, mud..... | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |
| Shrimp, pink..... | 0 | 0 | 0 | 2535101 | 2469964 | 2005530 | 835573 | 1959763 | 1999239 | 1478106 | 0 | 0 | 13283276 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Clams, butter..... | 0 | 135 | 208 | 209 | 189 | 58 | 0 | 0 | 0 | 1073 | 376 | 263 | 2511 |
| Clams, cockle..... | 0 | 0 | 14 | 150 | 780 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 951 |
| Clams, gaper..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110 | 45 | 592 | 315 | 1412 | 2474 |
| Clams, littleneck..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 6 | 22 |
| Clams, softshell..... | 0 | 0 | 0 | 30 | 100 | 0 | 95 | 0 | 0 | 0 | 0 | 0 | 225 |
| Mussels, ocean..... | 0 | 226 | 349 | 180 | 6 | 25 | 325 | 0 | 0 | 0 | 0 | 0 | 1111 |
| Octopus..... | 28 | 89 | 0 | 26 | 13 | 22 | 33 | 0 | 0 | 0 | 0 | 51 | 262 |
| OTHER INVERTEBRATES: | | | | | | | | | | | | | |
| Sea urchin, red..... | 0 | 34685 | 29169 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63854 |
| Bloodworms..... | 0 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| TOTAL | 2866080 | 1940609 | 1350939 | 3990402 | 4443364 | 3572296 | 2885979 | 3845016 | 3597799 | 2805120 | 938892 | 2559490 | 34795986 |

TABLE 19. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT BANDON, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|------------|--------------|------------|--------------|--------------|--------------|---------------|---------------|--------------|-------------|------------|-------------|---------------|
| FISH: | | | | | | | | | | | | | |
| Halibut, Pacific..... | 0 | 0 | 0 | 0 | 0 | 3091 | 0 | 0 | 0 | 0 | 0 | 0 | 3091 |
| Lingcod..... | 0 | 0 | 0 | 0 | 10 | 218 | 301 | 81 | 102 | 8 | 90 | 92 | 902 |
| Rockfish, other sp.... | 0 | 725 | 0 | 0 | 2422 | 207 | 3922 | 3810 | 1532 | 550 | 166 | 0 | 13334 |
| Thornyhead sp..... | 0 | 678 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 678 |
| Sablefish..... | 0 | 17801 | 0 | 25517 | 35978 | 20281 | 31257 | 0 | 0 | 0 | 0 | 0 | 130834 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 23281 | 5375 | 34891 | 81692 | 3912 | 4238 | 184 | 0 | 153573 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 52336 | 22313 | 0 | 0 | 0 | 0 | 74649 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 36 | 84 | 76 | 135 | 7 | 0 | 0 | 0 | 338 |
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1502 | 8054 | 0 | 0 | 0 | 9556 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, Dungeness, bay.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 72 | 54 | 0 | 126 |
| Crab, Dungeness, ocean | 511 | 306 | 469 | 6383 | 462 | 302 | 194 | 223 | 0 | 0 | 0 | 1222 | 10072 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Clams, softshell..... | 0 | 0 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| Mussels, ocean..... | 0 | 0 | 0 | 400 | 600 | 0 | 150 | 0 | 0 | 1800 | 0 | 0 | 2950 |
| TOTAL | 511 | 19510 | 469 | 32336 | 62789 | 29558 | 123127 | 109756 | 13607 | 6668 | 494 | 1314 | 400139 |

TABLE 20. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT PORT ORFORD, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|-----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| FISH: | | | | | | | | | | | | | |
| Cabezon..... | 220 | 310 | 0 | 0 | 0 | 16 | 0 | 38 | 0 | 0 | 0 | 0 | 584 |
| Flounder, arrowtooth.. | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Halibut, Pacific..... | 0 | 0 | 0 | 0 | 0 | 16871 | 0 | 0 | 0 | 0 | 0 | 0 | 16871 |
| Lingcod..... | 670 | 3801 | 4571 | 7981 | 3127 | 3870 | 3786 | 11018 | 13688 | 14276 | 2916 | 485 | 70189 |
| Rockfish, other sp.... | 827 | 6173 | 3761 | 14650 | 13225 | 15272 | 48151 | 24864 | 69629 | 25938 | 3960 | 7063 | 233513 |
| Sablefish..... | 0 | 0 | 0 | 2459 | 0 | 40509 | 3290 | 0 | 0 | 0 | 0 | 0 | 46258 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 26250 | 1970 | 26687 | 150152 | 18025 | 44595 | 53913 | 0 | 321592 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 137 | 36297 | 30723 | 0 | 0 | 0 | 0 | 67157 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 84 | 54 | 615 | 171 | 0 | 0 | 0 | 0 | 924 |
| Shark, sixgill..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 | 0 | 48 |
| Wolf-eel..... | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, Dungeness, ocean | 14623 | 24857 | 22158 | 14888 | 20466 | 6037 | 4947 | 4083 | 0 | 0 | 0 | 273402 | 385461 |
| Shrimp, pink..... | 0 | 0 | 0 | 41087 | 48305 | 56111 | 66751 | 52309 | 37754 | 0 | 0 | 0 | 302317 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Mussels, ocean..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 200 | 0 | 300 | 300 | 900 |
| Octopus..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1617 | 1617 |
| Scallops, rock..... | 0 | 125 | 0 | 85 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 210 |
| OTHER INVERTEBRATES: | | | | | | | | | | | | | |
| Sea urchin, red..... | 214708 | 305597 | 152633 | 573432 | 716967 | 670434 | 683302 | 666426 | 629644 | 431978 | 394958 | 591531 | 6031610 |
| TOTAL | 231048 | 340869 | 183123 | 654582 | 828424 | 811291 | 873826 | 939884 | 768940 | 516787 | 456095 | 874398 | 7479267 |

TABLE 21. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT GOLD BEACH, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|-----------------------------|-------------|--------------|--------------|---------------|---------------|---------------|--------------|---------------|---------------|---------------|--------------|--------------|----------------|
| FISH: | | | | | | | | | | | | | |
| Lingcod..... | 0 | 0 | 0 | 0 | 242 | 459 | 799 | 305 | 1200 | 258 | 52 | 195 | 3510 |
| Rockfish, other sp.... | 0 | 0 | 0 | 0 | 700 | 919 | 2178 | 802 | 288 | 246 | 117 | 167 | 5417 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 2982 | 207 | 0 | 2412 | 5070 | 0 | 0 | 0 | 10671 |
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 296 | 0 | 0 | 0 | 0 | 296 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, Dungeness, ocean | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6579 | 6579 |
| Crab, mole..... | 0 | 0 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Octopus..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 24 |
| Scallops, rock..... | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| OTHER INVERTEBRATES: | | | | | | | | | | | | | |
| Sea urchin, red..... | 2801 | 17234 | 35757 | 170777 | 139623 | 194911 | 62825 | 152287 | 518645 | 190380 | 62271 | 37981 | 1585492 |
| TOTAL | 2801 | 17234 | 35762 | 170790 | 143547 | 196496 | 65802 | 156102 | 525203 | 190884 | 62440 | 44946 | 1612007 |

TABLE 22. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT BROOKINGS, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|--------|--------|--------|--------|--------|--------|-----------|---------|----------|----------|---------|
| FISH: | | | | | | | | | | | | | |
| Cabezon..... | 0 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| Cod, Pacific..... | 104 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 10 | 8 | 0 | 144 |
| Flounder, arrowtooth.. | 915 | 1735 | 0 | 62 | 0 | 50 | 770 | 440 | 940 | 1554 | 1401 | 4 | 7871 |
| Flounder, starry..... | 551 | 222 | 74 | 0 | 0 | 0 | 110 | 0 | 0 | 290 | 25 | 0 | 1272 |
| Grenadier..... | 240 | 1090 | 7250 | 4715 | 7665 | 10990 | 13250 | 17270 | 9735 | 5630 | 7905 | 2310 | 88050 |
| Halibut, Pacific..... | 0 | 0 | 0 | 0 | 0 | 262 | 0 | 0 | 0 | 0 | 0 | 0 | 262 |
| Lingcod..... | 2456 | 9112 | 937 | 3588 | 28640 | 32638 | 13306 | 10260 | 9901 | 15385 | 16120 | 6191 | 148534 |
| Nominal POP..... | 2580 | 17631 | 5210 | 6040 | 4575 | 6025 | 4170 | 12736 | 8750 | 5202 | 6952 | 2415 | 82286 |
| Rockfish, widow..... | 110070 | 133670 | 99810 | 90130 | 103910 | 81730 | 62265 | 95920 | 119355 | 22795 | 4095 | 5280 | 929030 |
| Rockfish, yellowtail.. | 0 | 835 | 0 | 3800 | 42135 | 45430 | 6785 | 18505 | 0 | 8415 | 9695 | 11150 | 146750 |
| Rockfish, other sp.... | 8947 | 12175 | 4545 | 7746 | 48964 | 28767 | 15907 | 22153 | 12901 | 22547 | 17276 | 11302 | 213230 |
| Thornyhead sp..... | 114509 | 96245 | 140105 | 194505 | 181000 | 142065 | 154715 | 220785 | 107530 | 105677 | 219661 | 123145 | 1799942 |
| Sablefish..... | 42560 | 38512 | 83495 | 90985 | 62355 | 58348 | 84746 | 93243 | 87560 | 64741 | 70435 | 41855 | 818835 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 61792 | 31149 | 1307 | 29188 | 60442 | 260 | 334 | 0 | 184472 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 5215 | 353 | 13 | 0 | 0 | 0 | 0 | 5581 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 0 | 46 | 6 | 0 | 0 | 0 | 0 | 0 | 52 |
| Sanddab, Pacific..... | 19 | 288 | 727 | 90 | 29 | 15 | 686 | 260 | 0 | 670 | 270 | 45 | 3099 |
| Shark, soupfin..... | 0 | 41 | 0 | 0 | 64 | 42 | 0 | 0 | 0 | 46 | 188 | 21 | 402 |
| Smelt, whitebait..... | 0 | 0 | 0 | 0 | 1229 | 90 | 3193 | 0 | 0 | 0 | 0 | 0 | 4512 |
| Smelt, other sp..... | 0 | 0 | 0 | 0 | 725 | 3202 | 4744 | 1015 | 0 | 0 | 0 | 0 | 9686 |
| Sole, butter..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1170 | 0 | 0 | 1170 |
| Sole, Dover..... | 93408 | 81489 | 102129 | 77300 | 74607 | 66822 | 68379 | 79434 | 105630 | 138193 | 102003 | 59470 | 1048864 |
| Sole, English..... | 6802 | 5095 | 3404 | 195 | 659 | 405 | 982 | 1210 | 4150 | 10115 | 784 | 935 | 34736 |
| Sole, petrale..... | 28216 | 19097 | 626 | 230 | 1038 | 955 | 1145 | 697 | 1042 | 3345 | 4662 | 11607 | 72660 |
| Sole, rex..... | 5751 | 6779 | 1535 | 3925 | 2105 | 3085 | 1220 | 3790 | 5055 | 3748 | 1620 | 2375 | 40988 |
| Sole, rock..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 9 |
| Sole, sand..... | 7360 | 2469 | 1599 | 0 | 0 | 0 | 0 | 0 | 0 | 4700 | 0 | 0 | 16128 |
| Sturgeon, green..... | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| Surfperch spp..... | 0 | 376 | 760 | 792 | 0 | 0 | 161 | 42 | 0 | 160 | 189 | 13 | 2493 |

TABLE 22. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT BROOKINGS, 1989.

(CONT.)

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|--------|---------|---------|---------|--------|---------|-----------|---------|----------|----------|----------|
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7448 | 9152 | 2006 | 0 | 0 | 18606 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, Dungeness, ocean | 156942 | 100891 | 53163 | 27269 | 39260 | 7122 | 1568 | 351 | 0 | 0 | 0 | 862839 | 1249405 |
| Shrimp, pink..... | 0 | 0 | 0 | 691217 | 652045 | 495373 | 401620 | 938792 | 813219 | 638496 | 0 | 0 | 4630762 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Octopus..... | 814 | 742 | 132 | 325 | 185 | 360 | 81 | 69 | 35 | 95 | 214 | 3710 | 6762 |
| OTHER INVERTEBRATES: | | | | | | | | | | | | | |
| Sea urchin, red..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63396 | 0 | 0 | 63396 |
| TOTAL | 582244 | 528566 | 505501 | 1202914 | 1312982 | 1020208 | 841469 | 1553621 | 1355406 | 1118646 | 463837 | 1144667 | 11630061 |

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1989.

| SPECIES | OCEAN TROLL | TUNA BAITBOAT | COASTAL GILLNET | COASTAL SETNET | COL. R. GILLNET | COL. R. SETNET | COL. R. SETLINE | COL. R. DIPNET | COL. R. HOOK&LINE | SMELT TRAWL |
|------------------------|----------------|------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|----------------------|----------------|
| FISH: | | | | | | | | | | |
| Anchovy, northern..... | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 |
| Cabezon..... | 145 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cod, Pacific..... | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Flounder, arrowtooth.. | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Flounder, starry..... | 49 | 0 | 0 | 0 | 13303 | 0 | 0 | 0 | 0 | 0 |
| Greenling sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grenadier..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hagfish sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Halibut, Pacific..... | 1704 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Herring, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Irish Lord, brown..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Irish Lord, red..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lamprey, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lingcod..... | 52496 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mackerel, Pacific..... | 6543 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pikeminnow, northern.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pollock, walleye..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ratfish..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Ocean perch... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nominal POP..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rockfish, widow..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rockfish, yellowtail.. | 230 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rockfish, other sp.... | 143301 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Thornyhead sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sablefish..... | 272 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Salmon, chinook..... | 4062337 | 0 | 0 | 0 | 2465988 | 1072360 | 0 | 9854 | 0 | 0 |
| Salmon, chum..... | 498 | 0 | 0 | 0 | 3666 | 0 | 0 | 0 | 0 | 0 |
| Salmon, coho..... | 2294847 | 0 | 0 | 0 | 1537236 | 3721 | 0 | 815 | 0 | 0 |

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1989. (CONT.)

| SPECIES | OCEAN TROLL | TUNA BAITBOAT | COASTAL GILLNET | COASTAL SETNET | COL. R. GILLNET | COL. R. SETNET | COL. R. SETLINE | COL. R. DIPNET | COL. R. HOOK&LINE | SMELT TRAWL |
|------------------------|----------------|------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|----------------------|----------------|
| Salmon, pink..... | 20295 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Salmon, sockeye..... | 0 | 0 | 0 | 0 | 0 | 59 | 0 | 0 | 0 | 0 |
| Sanddab, Pacific..... | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sculpin, buffalo..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sculpin, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shad, American..... | 0 | 0 | 39017 | 11633 | 143825 | 0 | 0 | 0 | 0 | 0 |
| Shark, sixgill..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shark, soupfin..... | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shark, spiny dogfish.. | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shark, thresher..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shark, other sp..... | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Skates and rays..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Smelt (eulachon)..... | 0 | 0 | 0 | 0 | 274 | 0 | 0 | 5997 | 0 | 13697 |
| Smelt, whitebait..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Smelt, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sole, butter..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sole, curlfin (turbot) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sole, Dover..... | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sole, English..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sole, flathead..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sole, petrale..... | 171 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sole, rex..... | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sole, rock..... | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sole, sand..... | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Steelhead..... | 0 | 0 | 0 | 0 | 0 | 237107 | 0 | 14992 | 0 | 0 |
| Sturgeon, green..... | 0 | 0 | 0 | 0 | 3840 | 0 | 0 | 0 | 0 | 0 |
| Sturgeon, white..... | 0 | 0 | 0 | 0 | 121815 | 75346 | 2833 | 0 | 0 | 0 |
| Sucker, largescale.... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Surfperch spp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1989. (CONT.)

| SPECIES | OCEAN TROLL | TUNA BAITBOAT | COASTAL GILLNET | COASTAL SETNET | COL. R. GILLNET | COL. R. SETNET | COL. R. SETLINE | COL. R. DIPNET | COL. R. HOOK&LINE | SMELT TRAWL |
|------------------------|----------------|------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|----------------------|----------------|
| Tuna, albacore..... | 1079657 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Walleye..... | 0 | 0 | 0 | 0 | 0 | 7065 | 0 | 0 | 0 | 0 |
| Whiting, Pac. (hake).. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wolf-eel..... | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wrymouth, giant..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CRUSTACEANS: | | | | | | | | | | |
| Barnacle, gooseneck... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Crab, box..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Crab, Dungeness, bay.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Crab, Dungeness, ocean | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Crab, mole..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Crab, rock..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Crab, Tanner..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Crayfish..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shrimp, brine..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shrimp, ghost..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shrimp, mud..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shrimp, pink..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shrimp, spot..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Water flea (Daphnia).. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MOLLUSKS: | | | | | | | | | | |
| Clams, butter..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Clams, cockle..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Clams, gaper..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Clams, littleneck..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Clams, razor..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Clams, softshell..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mussels, ocean..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mussels, freshwater... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1989. (CONT.)

| SPECIES | OCEAN TROLL | TUNA BAITBOAT | COASTAL GILLNET | COASTAL SETNET | COL. R. GILLNET | COL. R. SETNET | COL. R. SETLINE | COL. R. DIPNET | COL. R. HOOK&LINE | SMELT TRAWL |
|----------------------|----------------|------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|----------------------|----------------|
| Octopus..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Scallops, rock..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Squid..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| OTHER INVERTEBRATES: | | | | | | | | | | |
| Sea urchin, red..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bloodworms..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Worms, tube..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 7662706 | 0 | 39017 | 11633 | 4289977 | 1395658 | 2833 | 31658 | 0 | 13697 |

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1989. (CONT.)

| SPECIES | FISH POT | BOTTOM LONGLINE | PELAGIC LONGLINE | OTHER HOOK&LINE | GROUND FISH TRAWL | MIDWATER TRAWL | SHRIMP TRAWL | SQUID NET | OCEAN GILLNET | SHRIMP POT |
|-----------------------|-------------|--------------------|---------------------|--------------------|----------------------|-------------------|-----------------|--------------|------------------|---------------|
| FISH: | | | | | | | | | | |
| Anchovy, northern.... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cabezon..... | 0 | 238 | 0 | 12042 | 1288 | 0 | 0 | 0 | 0 | 0 |
| Cod, Pacific..... | 5 | 780 | 0 | 0 | 1705161 | 2510 | 12072 | 0 | 0 | 0 |
| Flounder, arrowtooth. | 609 | 416 | 0 | 13 | 2495404 | 0 | 9522 | 0 | 0 | 0 |
| Flounder, starry..... | 0 | 0 | 0 | 26 | 429814 | 0 | 10 | 0 | 0 | 0 |
| Greenling sp..... | 0 | 0 | 0 | 169 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grenadier..... | 0 | 0 | 0 | 0 | 112981 | 0 | 0 | 0 | 0 | 0 |
| Hagfish sp..... | 344175 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 0 |
| Halibut, Pacific..... | 0 | 912479 | 0 | 1064 | 577 | 0 | 200 | 0 | 0 | 0 |
| Herring, Pacific..... | 0 | 0 | 0 | 622 | 0 | 0 | 0 | 0 | 0 | 0 |
| Irish Lord, brown.... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Irish Lord, red..... | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lamprey, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lingcod..... | 110 | 61815 | 0 | 195232 | 2192434 | 3658 | 85780 | 0 | 0 | 0 |
| Mackerel, Pacific.... | 0 | 0 | 0 | 70 | 76 | 0 | 3754 | 0 | 0 | 0 |
| Pikeminnow, northern. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pollock, walleye..... | 0 | 0 | 0 | 0 | 47 | 0 | 0 | 0 | 0 | 0 |
| Ratfish..... | 0 | 0 | 0 | 103 | 7 | 0 | 0 | 0 | 0 | 0 |
| Pacific Ocean perch.. | 0 | 70 | 0 | 3 | 1554338 | 700 | 2254 | 0 | 0 | 0 |
| Nominal POP..... | 0 | 8623 | 0 | 141 | 3016668 | 8720 | 12232 | 0 | 0 | 0 |
| Rockfish, widow..... | 0 | 172 | 0 | 712 | 4280618 | 10949332 | 5713 | 0 | 0 | 0 |
| Rockfish, yellowtail. | 0 | 8058 | 0 | 2731 | 3672198 | 169819 | 223693 | 0 | 0 | 0 |
| Rockfish, other sp... | 594 | 255854 | 0 | 557529 | 8919242 | 114594 | 1093904 | 0 | 0 | 0 |
| Thornyhead sp..... | 513 | 1797 | 0 | 0 | 5561125 | 304 | 412 | 0 | 0 | 0 |
| Sablefish..... | 1975027 | 935128 | 0 | 458 | 5743164 | 210 | 50589 | 0 | 0 | 0 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Salmon, chum..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1989. (CONT.)

| SPECIES | FISH POT | BOTTOM LONGLINE | PELAGIC LONGLINE | OTHER HOOK&LINE | GROUNDFISH TRAWL | MIDWATER TRAWL | SHRIMP TRAWL | SQUID NET | OCEAN GILLNET | SHRIMP POT |
|------------------------|----------|-----------------|------------------|-----------------|------------------|----------------|--------------|-----------|---------------|------------|
| Salmon, pink..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Salmon, sockeye..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sanddab, Pacific..... | 0 | 0 | 0 | 12 | 162126 | 0 | 771 | 0 | 0 | 0 |
| Sculpin, buffalo..... | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sculpin, other sp.... | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| Shad, American..... | 0 | 0 | 0 | 0 | 41 | 0 | 0 | 0 | 0 | 0 |
| Shark, sixgill..... | 0 | 48 | 0 | 36 | 51 | 0 | 0 | 0 | 0 | 0 |
| Shark, soupfin..... | 0 | 313 | 0 | 30 | 2703 | 0 | 200 | 0 | 0 | 0 |
| Shark, spiny dogfish. | 0 | 0 | 0 | 56 | 639 | 0 | 0 | 0 | 0 | 0 |
| Shark, thresher..... | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 |
| Shark, other sp..... | 0 | 0 | 0 | 0 | 122 | 0 | 0 | 0 | 0 | 0 |
| Skates and rays..... | 0 | 0 | 0 | 100 | 8211 | 0 | 6 | 0 | 0 | 0 |
| Smelt (eulachon)..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Smelt, whitebait..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Smelt, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sole, butter..... | 0 | 0 | 0 | 0 | 2465 | 0 | 0 | 0 | 0 | 0 |
| Sole, curlfin (turbot) | 0 | 0 | 0 | 0 | 5392 | 0 | 0 | 0 | 0 | 0 |
| Sole, Dover..... | 27 | 165 | 0 | 0 | 19590152 | 316 | 47694 | 0 | 0 | 0 |
| Sole, English..... | 0 | 0 | 0 | 0 | 1525441 | 272 | 1559 | 0 | 0 | 0 |
| Sole, flathead..... | 0 | 0 | 0 | 0 | 7202 | 0 | 50 | 0 | 0 | 0 |
| Sole, petrale..... | 0 | 474 | 0 | 0 | 1899902 | 0 | 1172 | 0 | 0 | 0 |
| Sole, rex..... | 0 | 0 | 0 | 0 | 622495 | 163 | 494 | 0 | 0 | 0 |
| Sole, rock..... | 0 | 0 | 0 | 0 | 5543 | 0 | 0 | 0 | 0 | 0 |
| Sole, sand..... | 0 | 2 | 0 | 0 | 487077 | 0 | 1 | 0 | 0 | 0 |
| Steelhead..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sturgeon, green..... | 0 | 0 | 0 | 0 | 6803 | 0 | 30 | 0 | 0 | 0 |
| Sturgeon, white..... | 0 | 0 | 0 | 0 | 478 | 0 | 0 | 0 | 0 | 0 |
| Sucker, largescale... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Surfperch spp..... | 0 | 0 | 0 | 3710 | 0 | 0 | 0 | 0 | 0 | 0 |

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1989. (CONT.)

| SPECIES | FISH POT | BOTTOM LONGLINE | PELAGIC LONGLINE | OTHER HOOK&LINE | GROUNDFISH TRAWL | MIDWATER TRAWL | SHRIMP TRAWL | SQUID NET | OCEAN GILLNET | SHRIMP POT |
|-----------------------|-------------|--------------------|---------------------|--------------------|---------------------|-------------------|-----------------|--------------|------------------|---------------|
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Walleye..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Whiting, Pac. (hake). | 0 | 0 | 0 | 0 | 7621 | 188293 | 0 | 0 | 0 | 0 |
| Wolf-eel..... | 0 | 93 | 0 | 735 | 3300 | 0 | 0 | 0 | 0 | 0 |
| Wrymouth, giant..... | 0 | 11 | 0 | 0 | 110 | 0 | 0 | 0 | 0 | 0 |
| CRUSTACEANS: | | | | | | | | | | |
| Barnacle, gooseneck.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Crab, box..... | 0 | 0 | 0 | 0 | 381 | 0 | 0 | 0 | 0 | 0 |
| Crab, Dungeness, bay. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Crab, Dungeness, ocea | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Crab, mole..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Crab, rock..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Crab, Tanner..... | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 |
| Crayfish..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shrimp, brine..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shrimp, ghost..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shrimp, mud..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shrimp, pink..... | 0 | 0 | 0 | 0 | 0 | 0 | 49128914 | 0 | 0 | 0 |
| Shrimp, spot..... | 0 | 0 | 0 | 0 | 0 | 0 | 74 | 0 | 0 | 0 |
| Water flea (Daphina). | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MOLLUSKS: | | | | | | | | | | |
| Clams, butter..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Clams, cockle..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Clams, gaper..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Clams, littleneck.... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Clams, razor..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Clams, softshell..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mussels, ocean..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mussels, freshwater.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1989. (CONT.)

| SPECIES | FISH POT | BOTTOM LONGLINE | PELAGIC LONGLINE | OTHER HOOK&LINE | GROUND FISH TRAWL | MIDWATER TRAWL | SHRIMP TRAWL | SQUID NET | OCEAN GILLNET | SHRIMP POT |
|----------------------|-------------|--------------------|---------------------|--------------------|----------------------|-------------------|-----------------|--------------|------------------|---------------|
| Octopus..... | 0 | 55 | 0 | 35 | 6996 | 0 | 524 | 0 | 0 | 0 |
| Scallops, rock..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Squid..... | 0 | 0 | 0 | 0 | 31 | 0 | 0 | 95994 | 0 | 0 |
| OTHER INVERTEBRATES: | | | | | | | | | | |
| Sea urchin, red..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bloodworms..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Worms, tube..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 2321060 | 2186591 | 0 | 775636 | 64030472 | 11438891 | 50681636 | 95994 | 0 | 0 |

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1989. (CONT.)

| SPECIES | CRAB POT | CRAB RING | CLAM OR RAKE | SHOVEL OR JET | CLAM PUMP OR JET | HAND DEVICE | SCALLOP DREDGE | SANDSHRIMP PUMP | BAITFISH NET | CRAYFISH TRAP | TOTAL ALL GEARS |
|------------------------|-------------|--------------|-----------------|------------------|---------------------|----------------|-------------------|--------------------|-----------------|------------------|--------------------|
| FISH: | | | | | | | | | | | |
| Anchovy, northern..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| Cabezon..... | 1052 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14765 |
| Cod, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1720551 |
| Flounder, arrowtooth.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2505977 |
| Flounder, starry..... | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 443256 |
| Greenling sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 169 |
| Grenadier..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 112981 |
| Hagfish sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 344187 |
| Halibut, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 916024 |
| Herring, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 545769 | 0 | 546391 |
| Irish Lord, brown..... | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Irish Lord, red..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Lamprey, Pacific..... | 0 | 0 | 0 | 0 | 0 | 8366 | 0 | 0 | 0 | 0 | 8366 |
| Lingcod..... | 295 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2591820 |
| Mackerel, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10443 |
| Pikeminnow, northern.. | 0 | 0 | 0 | 0 | 0 | 42 | 0 | 0 | 0 | 0 | 42 |
| Pollock, walleye..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| Ratfish..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110 |
| Pacific Ocean perch... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1557365 |
| Nominal POP..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3046384 |
| Rockfish, widow..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15236547 |
| Rockfish, yellowtail.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4076729 |
| Rockfish, other sp.... | 1141 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11086159 |
| Thornyhead sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5564151 |
| Sablefish..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8704848 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7610539 |
| Salmon, chum..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4164 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3836619 |

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1989. (CONT.)

| SPECIES | CRAB POT | CRAB CLAM RING | SHOVEL OR RAKE | CLAM PUMP OR JET | HAND DEVICE | SCALLOP DREDGE | SANDSHRIMP PUMP | BAITFISH NET | CRAYFISH TRAP | TOTAL ALL GEARS |
|------------------------|-------------|-------------------|-------------------|---------------------|----------------|-------------------|--------------------|-----------------|------------------|--------------------|
| Salmon, pink..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20295 |
| Salmon, sockeye..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 59 |
| Sanddab, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 162923 |
| Sculpin, buffalo..... | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 10 |
| Sculpin, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Shad, American..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 194516 |
| Shark, sixgill..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 135 |
| Shark, soupfin..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3264 |
| Shark, spiny dogfish.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 698 |
| Shark, thresher..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| Shark, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 159 |
| Skates and rays..... | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8319 |
| Smelt (eulachon)..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19968 |
| Smelt, whitebait..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4512 | 0 | 4512 |
| Smelt, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9686 | 0 | 9686 |
| Sole, butter..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2465 |
| Sole, curlfin (turbot) | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5420 |
| Sole, Dover..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19638358 |
| Sole, English..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1527272 |
| Sole, flathead..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7252 |
| Sole, petrale..... | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1901739 |
| Sole, rex..... | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 623183 |
| Sole, rock..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5555 |
| Sole, sand..... | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 487093 |
| Steelhead..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 252099 |
| Sturgeon, green..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10673 |
| Sturgeon, white..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 200472 |
| Sucker, largescale.... | 0 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 28 |
| Surfperch spp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3710 |

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1989. (CONT.)

| SPECIES | CRAB POT | CRAB CLAM RING | SHOVEL OR RAKE | CLAM PUMP OR JET | HAND DEVICE | SCALLOP DREDGE | SANDSHRIMP PUMP | BAITFISH NET | CRAYFISH TRAP | TOTAL ALL GEARS |
|------------------------|-------------|-------------------|-------------------|---------------------|----------------|-------------------|--------------------|-----------------|------------------|--------------------|
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1079657 |
| Walleye..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7065 |
| Whiting, Pac. (hake).. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 195914 |
| Wolf-eel..... | 765 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4917 |
| Wrymouth, giant..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 121 |
| CRUSTACEANS: | | | | | | | | | | |
| Barnacle, gooseneck... | 0 | 0 | 0 | 0 | 561 | 0 | 0 | 0 | 0 | 561 |
| Crab, box..... | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 412 |
| Crab, Dungeness, bay.. | 0 | 63478 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 63480 |
| Crab, Dungeness, ocean | 11612421 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11612421 |
| Crab, mole..... | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Crab, rock..... | 0 | 1160 | 0 | 0 | 2877 | 0 | 0 | 0 | 0 | 4037 |
| Crab, Tanner..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| Crayfish..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 237990 | 237990 |
| Shrimp, brine..... | 0 | 0 | 0 | 0 | 29800 | 0 | 0 | 0 | 0 | 29800 |
| Shrimp, ghost..... | 0 | 0 | 0 | 0 | 0 | 0 | 68040 | 0 | 0 | 68040 |
| Shrimp, mud..... | 0 | 0 | 0 | 0 | 0 | 0 | 40995 | 0 | 0 | 40995 |
| Shrimp, pink..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49128914 |
| Shrimp, spot..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 74 |
| Water flea (Daphnia).. | 0 | 0 | 0 | 0 | 3000 | 0 | 0 | 0 | 0 | 3000 |
| MOLLUSKS: | | | | | | | | | | |
| Clams, butter..... | 0 | 0 | 1723 | 0 | 2083 | 0 | 0 | 0 | 0 | 3806 |
| Clams, cockle..... | 0 | 0 | 1840 | 0 | 42504 | 0 | 0 | 0 | 0 | 44344 |
| Clams, gaper..... | 0 | 0 | 310 | 0 | 4854 | 0 | 0 | 0 | 0 | 5164 |
| Clams, littleneck..... | 0 | 0 | 0 | 0 | 6032 | 0 | 0 | 0 | 0 | 6032 |
| Clams, razor..... | 0 | 0 | 32177 | 0 | 0 | 0 | 0 | 0 | 0 | 32177 |
| Clams, softshell..... | 0 | 0 | 1136 | 0 | 0 | 0 | 0 | 0 | 0 | 1136 |
| Mussels, ocean..... | 0 | 0 | 0 | 0 | 65048 | 0 | 0 | 0 | 0 | 65048 |
| Mussels, freshwater... | 0 | 0 | 0 | 0 | 3773 | 0 | 0 | 0 | 0 | 3773 |

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1989. (CONT.)

| SPECIES | CRAB POT | CRAB CLAM RING OR RAKE | SHOVEL OR RAKE | CLAM PUMP OR JET | HAND DEVICE | SCALLOP DREDGE | SANDSHRIMP PUMP | BAITFISH NET | CRAYFISH TRAP | TOTAL ALL GEARS |
|----------------------|-------------|---------------------------|-------------------|---------------------|----------------|-------------------|--------------------|-----------------|------------------|--------------------|
| Octopus..... | 7697 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 15318 |
| Scallops, rock..... | 0 | 0 | 0 | 0 | 220 | 0 | 0 | 0 | 0 | 220 |
| Squid..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 96025 |
| OTHER INVERTEBRATES: | | | | | | | | | | |
| Sea urchin, red..... | 0 | 0 | 0 | 0 | 7842658 | 0 | 0 | 0 | 0 | 7842658 |
| Bloodworms..... | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| Worms, tube..... | 0 | 0 | 0 | 0 | 1938 | 0 | 0 | 0 | 0 | 1938 |
| TOTAL | 11623537 | 64640 | 37222 | 0 | 8013802 | 0 | 109035 | 559967 | 237990 | 165623652 |

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1989.

| SPECIES | OCEAN TROLL | TUNA BAITBOAT | COASTAL GILLNET | COASTAL SETNET | COL. R. GILLNET | COL. R. SETNET | COL. R. SETLINE | COL. R. DIPNET | COL. R. HOOK&LINE | SMELT TRAWL |
|------------------------|----------------|------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|----------------------|----------------|
| FISH: | | | | | | | | | | |
| Anchovy, northern..... | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 |
| Cabezon..... | 87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cod, Pacific..... | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Flounder, arrowtooth.. | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Flounder, starry..... | 18 | 0 | 0 | 0 | 3913 | 0 | 0 | 0 | 0 | 0 |
| Greenling sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grenadier..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hagfish sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Halibut, Pacific..... | 2260 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Herring, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Irish Lord, brown..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Irish Lord, red..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lamprey, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lingcod..... | 24223 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mackerel, Pacific..... | 839 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pikeminnow, northern.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pollock, walleye..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ratfish..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Ocean perch... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nominal POP..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rockfish, widow..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rockfish, yellowtail.. | 102 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rockfish, other sp.... | 55689 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Thornyhead sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sablefish..... | 165 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Salmon, chinook..... | 7874662 | 0 | 0 | 0 | 2079556 | 693684 | 0 | 4309 | 0 | 0 |
| Salmon, chum..... | 430 | 0 | 0 | 0 | 1714 | 0 | 0 | 0 | 0 | 0 |
| Salmon, coho..... | 2131758 | 0 | 0 | 0 | 1320470 | 2146 | 0 | 580 | 0 | 0 |

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1989. (CONT.)

| SPECIES | OCEAN TROLL | TUNA BAITBOAT | COASTAL GILLNET | COASTAL SETNET | COL. R. GILLNET | COL. R. SETNET | COL. R. SETLINE | COL. R. DIPNET | COL. R. HOOK&LINE | SMELT TRAWL |
|------------------------|----------------|------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|----------------------|----------------|
| Salmon, pink..... | 13111 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Salmon, sockeye..... | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 |
| Sanddab, Pacific..... | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sculpin, buffalo..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sculpin, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shad, American..... | 0 | 0 | 34049 | 9962 | 29632 | 0 | 0 | 0 | 0 | 0 |
| Shark, sixgill..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shark, soupfin..... | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shark, spiny dogfish.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shark, thresher..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shark, other sp..... | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Skates and rays..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Smelt (eulachon)..... | 0 | 0 | 0 | 0 | 69 | 0 | 0 | 1757 | 0 | 2368 |
| Smelt, whitebait..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Smelt, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sole, butter..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sole, curlfin (turbot) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sole, Dover..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sole, English..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sole, flathead..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sole, petrale..... | 128 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sole, rex..... | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sole, rock..... | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sole, sand..... | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Steelhead..... | 0 | 0 | 0 | 0 | 0 | 129322 | 0 | 7250 | 0 | 0 |
| Sturgeon, green..... | 0 | 0 | 0 | 0 | 1717 | 0 | 0 | 0 | 0 | 0 |
| Sturgeon, white..... | 0 | 0 | 0 | 0 | 218409 | 160446 | 5869 | 0 | 0 | 0 |
| Sucker, largescale.... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Surfperch spp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1989. (CONT.)

| SPECIES | OCEAN TROLL | TUNA BAITBOAT | COASTAL GILLNET | COASTAL SETNET | COL. R. GILLNET | COL. R. SETNET | COL. R. SETLINE | COL. R. DIPNET | COL. R. HOOK&LINE | SMELT TRAWL |
|------------------------|----------------|------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|----------------------|----------------|
| Tuna, albacore..... | 887241 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Walleye..... | 0 | 0 | 0 | 0 | 0 | 4649 | 0 | 0 | 0 | 0 |
| Whiting, Pac. (hake).. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wolf-eel..... | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wrymouth, giant..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CRUSTACEANS: | | | | | | | | | | |
| Barnacle, gooseneck... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Crab, box..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Crab, Dungeness, bay.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Crab, Dungeness, ocean | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Crab, mole..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Crab, rock..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Crab, Tanner..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Crayfish..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shrimp, brine..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shrimp, ghost..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shrimp, mud..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shrimp, pink..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shrimp, spot..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Water flea (Daphnia).. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MOLLUSKS: | | | | | | | | | | |
| Clams, butter..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Clams, cockle..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Clams, gaper..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Clams, littleneck..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Clams, razor..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Clams, softshell..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mussels, ocean..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mussels, freshwater... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1989. (CONT.)

| SPECIES | OCEAN TROLL | TUNA BAITBOAT | COASTAL GILLNET | COASTAL SETNET | COL. R. GILLNET | COL. R. SETNET | COL. R. SETLINE | COL. R. DIPNET | COL. R. HOOK&LINE | SMELT TRAWL |
|----------------------|----------------|------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|----------------------|----------------|
| Octopus..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Scallops, rock..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Squid..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| OTHER INVERTEBRATES: | | | | | | | | | | |
| Sea urchin, red..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bloodworms..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Worms, tube..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 10990793 | 0 | 34049 | 9962 | 3655495 | 990277 | 5869 | 13896 | 0 | 2368 |

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1989. (CONT.)

| SPECIES | FISH POT | BOTTOM LONGLINE | PELAGIC LONGLINE | OTHER HOOK&LINE | GROUND FISH TRAWL | MIDWATER TRAWL | SHRIMP TRAWL | SQUID NET | OCEAN GILLNET | SHRIMP POT |
|-----------------------|-------------|--------------------|---------------------|--------------------|----------------------|-------------------|-----------------|--------------|------------------|---------------|
| FISH: | | | | | | | | | | |
| Anchovy, northern.... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cabazon..... | 0 | 60 | 0 | 3568 | 320 | 0 | 0 | 0 | 0 | 0 |
| Cod, Pacific..... | 1 | 311 | 0 | 0 | 444289 | 653 | 3054 | 0 | 0 | 0 |
| Flounder, arrowtooth. | 60 | 44 | 0 | 5 | 241302 | 0 | 944 | 0 | 0 | 0 |
| Flounder, starry..... | 0 | 0 | 0 | 9 | 129244 | 0 | 2 | 0 | 0 | 0 |
| Greenling sp..... | 0 | 0 | 0 | 99 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grenadier..... | 0 | 0 | 0 | 0 | 17920 | 0 | 0 | 0 | 0 | 0 |
| Hagfish sp..... | 103252 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 |
| Halibut, Pacific..... | 0 | 1297875 | 0 | 1297 | 684 | 0 | 350 | 0 | 0 | 0 |
| Herring, Pacific..... | 0 | 0 | 0 | 486 | 0 | 0 | 0 | 0 | 0 | 0 |
| Irish Lord, brown.... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Irish Lord, red..... | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lamprey, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lingcod..... | 44 | 25925 | 0 | 96878 | 697616 | 1201 | 25282 | 0 | 0 | 0 |
| Mackerel, Pacific.... | 0 | 0 | 0 | 25 | 9 | 0 | 301 | 0 | 0 | 0 |
| Pikeminnow, northern. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pollock, walleye..... | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 |
| Ratfish..... | 0 | 0 | 0 | 10 | 1 | 0 | 0 | 0 | 0 | 0 |
| Pacific Ocean perch.. | 0 | 19 | 0 | 1 | 431358 | 195 | 593 | 0 | 0 | 0 |
| Nominal POP..... | 0 | 1990 | 0 | 50 | 730281 | 2118 | 2968 | 0 | 0 | 0 |
| Rockfish, widow..... | 0 | 86 | 0 | 234 | 1104468 | 2817035 | 1493 | 0 | 0 | 0 |
| Rockfish, yellowtail. | 0 | 2181 | 0 | 1002 | 990809 | 45805 | 59840 | 0 | 0 | 0 |
| Rockfish, other sp... | 178 | 126403 | 0 | 242081 | 2405391 | 30250 | 274228 | 0 | 0 | 0 |
| Thornyhead sp..... | 191 | 656 | 0 | 0 | 2049332 | 112 | 149 | 0 | 0 | 0 |
| Sablefish..... | 1143273 | 562620 | 0 | 264 | 2114446 | 109 | 13665 | 0 | 0 | 0 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Salmon, chum..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1989. (CONT.)

| SPECIES | FISH POT | BOTTOM LONGLINE | PELAGIC LONGLINE | OTHER HOOK&LINE | GROUND FISH TRAWL | MIDWATER TRAWL | SHRIMP TRAWL | SQUID NET | OCEAN GILLNET | SHRIMP POT |
|-----------------------|-------------|--------------------|---------------------|--------------------|----------------------|-------------------|-----------------|--------------|------------------|---------------|
| Salmon, pink..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Salmon, sockeye..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sanddab, Pacific..... | 0 | 0 | 0 | 3 | 41169 | 0 | 193 | 0 | 0 | 0 |
| Sculpin, buffalo..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sculpin, other sp.... | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Shad, American..... | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| Shark, sixgill..... | 0 | 26 | 0 | 20 | 28 | 0 | 0 | 0 | 0 | 0 |
| Shark, soupfin..... | 0 | 331 | 0 | 19 | 2530 | 0 | 209 | 0 | 0 | 0 |
| Shark, spiny dogfish. | 0 | 0 | 0 | 34 | 299 | 0 | 0 | 0 | 0 | 0 |
| Shark, thresher..... | 0 | 0 | 0 | 0 | 49 | 0 | 0 | 0 | 0 | 0 |
| Shark, other sp..... | 0 | 0 | 0 | 0 | 73 | 0 | 0 | 0 | 0 | 0 |
| Skates and rays..... | 0 | 0 | 0 | 60 | 2591 | 0 | 2 | 0 | 0 | 0 |
| Smelt (eulachon)..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Smelt, whitebait..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Smelt, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sole, butter..... | 0 | 0 | 0 | 0 | 617 | 0 | 0 | 0 | 0 | 0 |
| Sole, curlfin (turbot | 0 | 0 | 0 | 0 | 1898 | 0 | 0 | 0 | 0 | 0 |
| Sole, Dover..... | 8 | 46 | 0 | 0 | 5460400 | 87 | 12058 | 0 | 0 | 0 |
| Sole, English..... | 0 | 0 | 0 | 0 | 562253 | 103 | 482 | 0 | 0 | 0 |
| Sole, flathead..... | 0 | 0 | 0 | 0 | 2736 | 0 | 19 | 0 | 0 | 0 |
| Sole, petrale..... | 0 | 402 | 0 | 0 | 1588556 | 0 | 872 | 0 | 0 | 0 |
| Sole, rex..... | 0 | 0 | 0 | 0 | 227044 | 62 | 187 | 0 | 0 | 0 |
| Sole, rock..... | 0 | 0 | 0 | 0 | 2106 | 0 | 0 | 0 | 0 | 0 |
| Sole, sand..... | 0 | 2 | 0 | 0 | 363864 | 0 | 1 | 0 | 0 | 0 |
| Steelhead..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sturgeon, green..... | 0 | 0 | 0 | 0 | 3710 | 0 | 17 | 0 | 0 | 0 |
| Sturgeon, white..... | 0 | 0 | 0 | 0 | 501 | 0 | 0 | 0 | 0 | 0 |
| Sucker, largescale... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Surfperch spp..... | 0 | 0 | 0 | 2810 | 0 | 0 | 0 | 0 | 0 | 0 |

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1989. (CONT.)

| SPECIES | FISH POT | BOTTOM LONGLINE | PELAGIC LONGLINE | OTHER HOOK&LINE | GROUND FISH TRAWL | MIDWATER TRAWL | SHRIMP TRAWL | SQUID NET | OCEAN GILLNET | SHRIMP POT |
|-----------------------|-------------|--------------------|---------------------|--------------------|-------------------------|-------------------|-----------------|--------------|------------------|---------------|
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Walleye..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Whiting, Pac. (hake). | 0 | 0 | 0 | 0 | 846 | 13779 | 0 | 0 | 0 | 0 |
| Wolf-eel..... | 0 | 46 | 0 | 255 | 859 | 0 | 0 | 0 | 0 | 0 |
| Wrymouth, giant..... | 0 | 1 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 |
| CRUSTACEANS: | | | | | | | | | | |
| Barnacle, gooseneck.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Crab, box..... | 0 | 0 | 0 | 0 | 95 | 0 | 0 | 0 | 0 | 0 |
| Crab, Dungeness, bay. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Crab, Dungeness, ocea | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Crab, mole..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Crab, rock..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Crab, Tanner..... | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 |
| Crayfish..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shrimp, brine..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shrimp, ghost..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shrimp, mud..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shrimp, pink..... | 0 | 0 | 0 | 0 | 0 | 0 | 17906265 | 0 | 0 | 0 |
| Shrimp, spot..... | 0 | 0 | 0 | 0 | 0 | 0 | 259 | 0 | 0 | 0 |
| Water flea (Daphnia). | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MOLLUSKS: | | | | | | | | | | |
| Clams, butter..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Clams, cockle..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Clams, gaper..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Clams, littleneck.... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Clams, razor..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Clams, softshell..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mussels, ocean..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mussels, freshwater.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1989. (CONT.)

| SPECIES | FISH POT | BOTTOM LONGLINE | PELAGIC LONGLINE | OTHER HOOK&LINE | GROUND FISH TRAWL | MIDWATER TRAWL | SHRIMP TRAWL | SQUID NET | OCEAN GILLNET | SHRIMP POT |
|----------------------|-------------|--------------------|---------------------|--------------------|----------------------|-------------------|-----------------|--------------|------------------|---------------|
| Octopus..... | 0 | 28 | 0 | 33 | 4058 | 0 | 424 | 0 | 0 | 0 |
| Scallops, rock..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Squid..... | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 7679 | 0 | 0 |
| OTHER INVERTEBRATES: | | | | | | | | | | |
| Sea urchin, red..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bloodworms..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Worms, tube..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 1247007 | 2019052 | 0 | 349244 | 19623802 | 2911509 | 18303861 | 7679 | 0 | 0 |

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1989. (CONT.)

| SPECIES | CRAB POT | CRAB RING | CLAM OR SHOVEL OR RAKE | CLAM PUMP OR JET | HAND DEVICE | SCALLOP DREDGE | SANDSHRIMP PUMP | BAITFISH NET | CRAYFISH TRAP | TOTAL ALL GEARS |
|------------------------|-------------|--------------|------------------------------|------------------------|----------------|-------------------|--------------------|-----------------|------------------|--------------------|
| FISH: | | | | | | | | | | |
| Anchovy, northern..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Cabazon..... | 319 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4354 |
| Cod, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 448314 |
| Flounder, arrowtooth.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 242358 |
| Flounder, starry..... | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 133213 |
| Greenling sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 99 |
| Grenadier..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17920 |
| Hagfish sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 103256 |
| Halibut, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1302466 |
| Herring, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 266971 | 0 | 267457 |
| Irish Lord, brown..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Irish Lord, red..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Lamprey, Pacific..... | 0 | 0 | 0 | 0 | 2950 | 0 | 0 | 0 | 0 | 2950 |
| Lingcod..... | 138 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 871307 |
| Mackerel, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1174 |
| Pikeminnow, northern.. | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| Pollock, walleye..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Ratfish..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Pacific Ocean perch... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 432166 |
| Nominal POP..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 737407 |
| Rockfish, widow..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3923316 |
| Rockfish, yellowtail.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1099739 |
| Rockfish, other sp.... | 499 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3134719 |
| Thornyhead sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2050440 |
| Sablefish..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3834542 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10652211 |
| Salmon, chum..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2144 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3454954 |

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1989. (CONT.)

| SPECIES | CRAB POT | CRAB RING | CLAM OR RAKE | SHOVEL OR JET | CLAM PUMP OR JET | HAND DEVICE | SCALLOP DREDGE | SANDSHRIMP PUMP | BAITFISH NET | CRAYFISH TRAP | TOTAL ALL GEARS |
|------------------------|-------------|--------------|-----------------|------------------|---------------------|----------------|-------------------|--------------------|-----------------|------------------|--------------------|
| Salmon, pink..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13111 |
| Salmon, sockeye..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| Sanddab, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41369 |
| Sculpin, buffalo..... | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Sculpin, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Shad, American..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 73650 |
| Shark, sixgill..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 74 |
| Shark, soupfin..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3114 |
| Shark, spiny dogfish.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 333 |
| Shark, thresher..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| Shark, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95 |
| Skates and rays..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2654 |
| Smelt (eulachon)..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4194 |
| Smelt, whitebait..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1451 | 0 | 1451 |
| Smelt, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1924 | 0 | 1924 |
| Sole, butter..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 617 |
| Sole, curlfin (turbot) | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1907 |
| Sole, Dover..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5472600 |
| Sole, English..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 562838 |
| Sole, flathead..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2755 |
| Sole, petrale..... | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1589975 |
| Sole, rex..... | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 227305 |
| Sole, rock..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2112 |
| Sole, sand..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 363872 |
| Steelhead..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 136572 |
| Sturgeon, green..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5444 |
| Sturgeon, white..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 385225 |
| Sucker, largescale.... | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Surfperch spp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2810 |

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1989. (CONT.)

| SPECIES | CRAB POT | CRAB RING | CLAM OR RAKE | SHOVEL OR JET | CLAM PUMP OR JET | HAND DEVICE | SCALLOP DREDGE | SANDSHRIMP PUMP | BAITFISH NET | CRAYFISH TRAP | TOTAL ALL GEARS |
|------------------------|-------------|--------------|--------------------|---------------------|---------------------------|----------------|-------------------|--------------------|-----------------|------------------|-----------------------|
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 887241 |
| Walleye..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4649 |
| Whiting, Pac. (hake).. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14625 |
| Wolf-eel..... | 304 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1471 |
| Wrymouth, giant..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| CRUSTACEANS: | | | | | | | | | | | |
| Barnacle, gooseneck... | 0 | 0 | 0 | 0 | 0 | 1938 | 0 | 0 | 0 | 0 | 1938 |
| Crab, box..... | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 108 |
| Crab, Dungeness, bay.. | 0 | 101568 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 101571 |
| Crab, Dungeness, ocean | 13462688 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13462688 |
| Crab, mole..... | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Crab, rock..... | 0 | 1160 | 0 | 0 | 0 | 2877 | 0 | 0 | 0 | 0 | 4037 |
| Crab, Tanner..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| Crayfish..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 318466 | 318466 |
| Shrimp, brine..... | 0 | 0 | 0 | 0 | 0 | 46260 | 0 | 0 | 0 | 0 | 46260 |
| Shrimp, ghost..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 97903 | 0 | 0 | 97903 |
| Shrimp, mud..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 67123 | 0 | 0 | 67123 |
| Shrimp, pink..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17906265 |
| Shrimp, spot..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 259 |
| Water flea (Daphnia).. | 0 | 0 | 0 | 0 | 0 | 3000 | 0 | 0 | 0 | 0 | 3000 |
| MOLLUSKS: | | | | | | | | | | | |
| Clams, butter..... | 0 | 0 | 970 | 0 | 0 | 577 | 0 | 0 | 0 | 0 | 1547 |
| Clams, cockle..... | 0 | 0 | 608 | 0 | 0 | 20035 | 0 | 0 | 0 | 0 | 20643 |
| Clams, gaper..... | 0 | 0 | 156 | 0 | 0 | 1594 | 0 | 0 | 0 | 0 | 1750 |
| Clams, littleneck..... | 0 | 0 | 0 | 0 | 0 | 8951 | 0 | 0 | 0 | 0 | 8951 |
| Clams, razor..... | 0 | 0 | 87962 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 87962 |
| Clams, softshell..... | 0 | 0 | 450 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 450 |
| Mussels, ocean..... | 0 | 0 | 0 | 0 | 0 | 21871 | 0 | 0 | 0 | 0 | 21871 |
| Mussels, freshwater... | 0 | 0 | 0 | 0 | 0 | 1094 | 0 | 0 | 0 | 0 | 1094 |

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1989. (CONT.)

| SPECIES | CRAB POT | CRAB RING | CLAM OR RAKE | SHOVEL OR JET | CLAM PUMP OR JET | HAND DEVICE | SCALLOP DREDGE | SANDSHRIMP PUMP | BAITFISH NET | CRAYFISH TRAP | TOTAL ALL GEARS |
|----------------------|-------------|--------------|-----------------|------------------|---------------------|----------------|-------------------|--------------------|-----------------|------------------|--------------------|
| Octopus..... | 4076 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 8625 |
| Scallops, rock..... | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 10 |
| Squid..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7683 |
| OTHER INVERTEBRATES: | | | | | | | | | | | |
| Sea urchin, red..... | 0 | 0 | 0 | 0 | 0 | 2728272 | 0 | 0 | 0 | 0 | 2728272 |
| Bloodworms..... | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Worms, tube..... | 0 | 0 | 0 | 0 | 0 | 773 | 0 | 0 | 0 | 0 | 773 |
| TOTAL | 13468102 | 102729 | 90165 | 0 | 0 | 2840215 | 0 | 165026 | 270346 | 318466 | 77419912 |

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1989.

| GEAR/SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|-------|-------|---------|--------|---------|---------|-----------|---------|----------|----------|---------|
| <u>TROLL</u> | | | | | | | | | | | | | |
| FISH: | | | | | | | | | | | | | |
| Cabezon..... | 0 | 0 | 0 | 0 | 8 | 7 | 36 | 0 | 75 | 0 | 19 | 0 | 145 |
| Cod, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 23 |
| Flounder, arrowtooth.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 4 | 0 | 0 | 0 | 13 |
| Flounder, starry..... | 0 | 0 | 0 | 0 | 0 | 20 | 19 | 0 | 10 | 0 | 0 | 0 | 49 |
| Halibut, Pacific..... | 0 | 0 | 0 | 0 | 0 | 1583 | 39 | 45 | 17 | 20 | 0 | 0 | 1704 |
| Lingcod..... | 0 | 0 | 0 | 0 | 8207 | 2765 | 11389 | 11632 | 12437 | 3915 | 2151 | 0 | 52496 |
| Mackerel, Pacific..... | 0 | 0 | 0 | 0 | 0 | 36 | 5452 | 1029 | 26 | 0 | 0 | 0 | 6543 |
| Rockfish, yellowtail.. | 0 | 0 | 0 | 0 | 0 | 71 | 156 | 0 | 3 | 0 | 0 | 0 | 230 |
| Rockfish, other sp.... | 0 | 0 | 0 | 0 | 30832 | 8803 | 24768 | 29493 | 16144 | 30241 | 3020 | 0 | 143301 |
| Sablefish..... | 0 | 0 | 0 | 0 | 0 | 7 | 247 | 3 | 0 | 15 | 0 | 0 | 272 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 1134292 | 671737 | 858287 | 826144 | 316128 | 195155 | 60594 | 0 | 4062337 |
| Salmon, chum..... | 0 | 0 | 0 | 0 | 251 | 133 | 96 | 18 | 0 | 0 | 0 | 0 | 498 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 5352 | 1859137 | 377054 | 53304 | 0 | 0 | 0 | 2294847 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 1451 | 2965 | 11821 | 4044 | 14 | 0 | 0 | 0 | 20295 |
| Sanddab, Pacific..... | 0 | 0 | 0 | 0 | 10 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| Shark, soupfin..... | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 18 |
| Shark, spiny dogfish.. | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Shark, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 22 | 0 | 0 | 0 | 0 | 37 |
| Sole, Dover..... | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 4 |
| Sole, petrale..... | 0 | 0 | 0 | 0 | 7 | 11 | 41 | 78 | 27 | 7 | 0 | 0 | 171 |
| Sole, rex..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 8 |
| Sole, rock..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 2 | 0 | 0 | 11 |
| Sole, sand..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | 0 | 0 | 0 | 8 |
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 41164 | 413364 | 460742 | 157044 | 7343 | 0 | 1079657 |
| Wolf-eel..... | 0 | 0 | 0 | 0 | 2 | 4 | 16 | 0 | 0 | 0 | 0 | 0 | 22 |
| TOTAL | 0 | 0 | 0 | 0 | 1175060 | 693501 | 2812705 | 1662949 | 858965 | 386399 | 73127 | 0 | 7662706 |

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1989. (CONT.)

| GEAR/SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|-------|-------|-------|-------|------|--------|-----------|---------|----------|----------|---------|
| <u>COASTAL GILLNET</u> | | | | | | | | | | | | | |
| FISH: | | | | | | | | | | | | | |
| Shad, American..... | 0 | 0 | 0 | 0 | 13417 | 25600 | 0 | 0 | 0 | 0 | 0 | 0 | 39017 |
| TOTAL | 0 | 0 | 0 | 0 | 13417 | 25600 | 0 | 0 | 0 | 0 | 0 | 0 | 39017 |
| <u>COASTAL SETNET</u> | | | | | | | | | | | | | |
| FISH: | | | | | | | | | | | | | |
| Shad, American..... | 0 | 0 | 0 | 0 | 1600 | 9830 | 203 | 0 | 0 | 0 | 0 | 0 | 11633 |
| TOTAL | 0 | 0 | 0 | 0 | 1600 | 9830 | 203 | 0 | 0 | 0 | 0 | 0 | 11633 |
| <u>COL. R. GILLNET</u> | | | | | | | | | | | | | |
| FISH: | | | | | | | | | | | | | |
| Anchovy, northern..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 30 |
| Flounder, starry..... | 0 | 213 | 913 | 0 | 0 | 0 | 0 | 1392 | 9790 | 994 | 1 | 0 | 13303 |
| Salmon, chinook..... | 0 | 85779 | 90960 | 0 | 0 | 0 | 0 | 809681 | 1197677 | 239583 | 42308 | 0 | 2465988 |
| Salmon, chum..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 2553 | 1098 | 0 | 3666 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4400 | 435974 | 982059 | 114803 | 0 | 1537236 |
| Shad, American..... | 0 | 0 | 0 | 0 | 70900 | 71737 | 1188 | 0 | 0 | 0 | 0 | 0 | 143825 |
| Smelt (eulachon)..... | 0 | 0 | 274 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 274 |
| Sturgeon, green..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 280 | 3162 | 340 | 58 | 0 | 3840 |
| Sturgeon, white..... | 0 | 5060 | 3103 | 0 | 0 | 0 | 0 | 62778 | 31471 | 14142 | 5261 | 0 | 121815 |
| TOTAL | 0 | 91052 | 95250 | 0 | 70900 | 71737 | 1188 | 878531 | 1678119 | 1239671 | 163529 | 0 | 4289977 |
| <u>COL. R. SETNET</u> | | | | | | | | | | | | | |
| FISH: | | | | | | | | | | | | | |
| Salmon, chinook..... | 0 | 0 | 0 | 708 | 0 | 0 | 0 | 254568 | 817084 | 0 | 0 | 0 | 1072360 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55 | 3666 | 0 | 0 | 0 | 3721 |
| Salmon, sockeye..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 | 7 | 0 | 0 | 0 | 59 |
| Steelhead..... | 0 | 4754 | 37111 | 0 | 0 | 0 | 0 | 43337 | 151905 | 0 | 0 | 0 | 237107 |
| Sturgeon, white..... | 0 | 24054 | 51292 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 75346 |
| Walleye..... | 0 | 137 | 5218 | 0 | 0 | 0 | 0 | 795 | 915 | 0 | 0 | 0 | 7065 |

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1989. (CONT.)

| GEAR/SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|-------|--------|--------|--------|--------|--------|-----------|---------|----------|----------|---------|
| TOTAL | 0 | 28945 | 93621 | 708 | 0 | 0 | 0 | 298807 | 973577 | 0 | 0 | 0 | 1395658 |
| <u>COL. R. SETLINE</u> | | | | | | | | | | | | | |
| FISH: | | | | | | | | | | | | | |
| Sturgeon, white..... | 898 | 0 | 640 | 1295 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2833 |
| TOTAL | 898 | 0 | 640 | 1295 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2833 |
| <u>COL. R. DIPNET</u> | | | | | | | | | | | | | |
| FISH: | | | | | | | | | | | | | |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2632 | 7222 | 0 | 0 | 0 | 9854 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 94 | 721 | 0 | 0 | 0 | 815 |
| Smelt (eulachon)..... | 0 | 200 | 5797 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5997 |
| Steelhead..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9719 | 5273 | 0 | 0 | 0 | 14992 |
| TOTAL | 0 | 200 | 5797 | 0 | 0 | 0 | 0 | 12445 | 13216 | 0 | 0 | 0 | 31658 |
| <u>SMELT TRAWL</u> | | | | | | | | | | | | | |
| FISH: | | | | | | | | | | | | | |
| Smelt (eulachon)..... | 0 | 0 | 13697 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13697 |
| TOTAL | 0 | 0 | 13697 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13697 |
| <u>FISH POT</u> | | | | | | | | | | | | | |
| FISH: | | | | | | | | | | | | | |
| Cod, Pacific..... | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Flounder, arrowtooth.. | 0 | 4 | 0 | 0 | 0 | 605 | 0 | 0 | 0 | 0 | 0 | 0 | 609 |
| Hagfish sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 55067 | 11730 | 82396 | 99757 | 62597 | 32628 | 344175 |
| Lingcod..... | 0 | 0 | 0 | 48 | 0 | 7 | 55 | 0 | 0 | 0 | 0 | 0 | 110 |
| Rockfish, other sp.... | 0 | 0 | 0 | 95 | 0 | 499 | 0 | 0 | 0 | 0 | 0 | 0 | 594 |
| Thornyhead sp..... | 0 | 14 | 0 | 23 | 3 | 175 | 298 | 0 | 0 | 0 | 0 | 0 | 513 |
| Sablefish..... | 105649 | 114609 | 88343 | 315216 | 497910 | 470119 | 383181 | 0 | 0 | 0 | 0 | 0 | 1975027 |
| Sole, Dover..... | 0 | 0 | 0 | 0 | 0 | 18 | 9 | 0 | 0 | 0 | 0 | 0 | 27 |
| TOTAL | 105649 | 114627 | 88343 | 315382 | 497913 | 471428 | 438610 | 11730 | 82396 | 99757 | 62597 | 32628 | 2321060 |

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1989. (CONT.)

| GEAR/SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------------|---------|----------|-------|--------|--------|--------|--------|--------|-----------|---------|----------|----------|---------|
| <u>BOTTOM LONGLINE</u> | | | | | | | | | | | | | |
| FISH: | | | | | | | | | | | | | |
| Cabazon..... | 0 | 39 | 0 | 0 | 163 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 238 |
| Cod, Pacific..... | 0 | 0 | 488 | 0 | 0 | 128 | 144 | 20 | 0 | 0 | 0 | 0 | 780 |
| Flounder, arrowtooth.. | 0 | 0 | 0 | 0 | 54 | 276 | 86 | 0 | 0 | 0 | 0 | 0 | 416 |
| Halibut, Pacific..... | 0 | 0 | 0 | 0 | 27340 | 301801 | 32818 | 55023 | 313737 | 181760 | 0 | 0 | 912479 |
| Lingcod..... | 522 | 2208 | 6049 | 13405 | 4762 | 7798 | 1755 | 4091 | 12443 | 8031 | 179 | 572 | 61815 |
| Pacific Ocean perch... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 0 | 0 | 0 | 70 |
| Nominal POP..... | 0 | 0 | 170 | 543 | 3997 | 2158 | 1650 | 105 | 0 | 0 | 0 | 0 | 8623 |
| Rockfish, widow..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 92 | 80 | 0 | 0 | 0 | 172 |
| Rockfish, yellowtail.. | 0 | 0 | 1266 | 3325 | 0 | 2 | 0 | 747 | 1812 | 906 | 0 | 0 | 8058 |
| Rockfish, other sp.... | 1333 | 7714 | 6034 | 21953 | 30713 | 27118 | 15299 | 44599 | 66805 | 31152 | 1220 | 1914 | 255854 |
| Thornyhead sp..... | 0 | 678 | 0 | 236 | 264 | 476 | 135 | 0 | 0 | 8 | 0 | 0 | 1797 |
| Sablefish..... | 0 | 17801 | 960 | 101775 | 317010 | 242377 | 250140 | 526 | 525 | 4014 | 0 | 0 | 935128 |
| Shark, sixgill..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 | 0 | 48 |
| Shark, soupfin..... | 0 | 0 | 0 | 0 | 0 | 249 | 0 | 0 | 0 | 49 | 15 | 0 | 313 |
| Sole, Dover..... | 0 | 0 | 0 | 0 | 55 | 18 | 92 | 0 | 0 | 0 | 0 | 0 | 165 |
| Sole, petrale..... | 0 | 0 | 0 | 12 | 4 | 420 | 30 | 8 | 0 | 0 | 0 | 0 | 474 |
| Sole, sand..... | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Wolf-eel..... | 0 | 0 | 0 | 8 | 58 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 93 |
| Wrymouth, giant..... | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 11 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Octopus..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 45 | 0 | 0 | 55 |
| TOTAL | 1855 | 28440 | 14967 | 141257 | 384420 | 582886 | 302160 | 105211 | 395482 | 225965 | 1462 | 2486 | 2186591 |
| <u>OTHER HOOK & LINE</u> | | | | | | | | | | | | | |
| FISH: | | | | | | | | | | | | | |
| Cabazon..... | 439 | 339 | 352 | 3627 | 4761 | 314 | 719 | 416 | 464 | 42 | 300 | 269 | 12042 |
| Flounder, arrowtooth.. | 0 | 0 | 0 | 4 | 0 | 8 | 0 | 1 | 0 | 0 | 0 | 0 | 13 |
| Flounder, starry..... | 0 | 0 | 0 | 21 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 26 |

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1989. (CONT.)

| GEAR/SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|--------------------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|---------------|
| Greenling sp..... | 1 | 0 | 0 | 17 | 32 | 47 | 42 | 30 | 0 | 0 | 0 | 0 | 169 |
| Halibut, Pacific..... | 0 | 0 | 0 | 0 | 0 | 1064 | 0 | 0 | 0 | 0 | 0 | 0 | 1064 |
| Herring, Pacific..... | 0 | 386 | 138 | 96 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 622 |
| Irish Lord, red..... | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Lingcod..... | 3503 | 31659 | 26436 | 35075 | 8603 | 6421 | 9366 | 11693 | 30259 | 14778 | 5088 | 12351 | 195232 |
| Mackerel, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 52 | 18 | 0 | 0 | 0 | 0 | 70 |
| Ratfish..... | 0 | 0 | 0 | 0 | 0 | 0 | 69 | 34 | 0 | 0 | 0 | 0 | 103 |
| Pacific Ocean perch... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| Nominal POP..... | 0 | 15 | 0 | 108 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 141 |
| Rockfish, widow..... | 47 | 14 | 0 | 575 | 0 | 0 | 0 | 0 | 76 | 0 | 0 | 0 | 712 |
| Rockfish, yellowtail.. | 104 | 632 | 866 | 678 | 1 | 46 | 0 | 0 | 164 | 240 | 0 | 0 | 2731 |
| Rockfish, other sp.... | 25572 | 29536 | 46259 | 141900 | 47150 | 32700 | 74905 | 36076 | 73389 | 30459 | 7093 | 12490 | 557529 |
| Sablefish..... | 0 | 0 | 0 | 20 | 0 | 205 | 14 | 0 | 219 | 0 | 0 | 0 | 458 |
| Sanddab, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 12 |
| Sculpin, buffalo..... | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| Shark, sixgill..... | 0 | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| Shark, soupfin..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 30 |
| Shark, spiny dogfish.. | 0 | 0 | 0 | 18 | 4 | 0 | 9 | 22 | 3 | 0 | 0 | 0 | 56 |
| Skates and rays..... | 0 | 0 | 0 | 70 | 0 | 3 | 27 | 0 | 0 | 0 | 0 | 0 | 100 |
| Surfperch spp..... | 25 | 377 | 761 | 844 | 5 | 328 | 448 | 560 | 0 | 160 | 189 | 13 | 3710 |
| Wolf-eel..... | 0 | 0 | 9 | 166 | 466 | 12 | 66 | 6 | 3 | 0 | 7 | 0 | 735 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Octopus..... | 0 | 0 | 0 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| TOTAL | 29691 | 62958 | 74821 | 183254 | 61030 | 41184 | 85720 | 48874 | 104595 | 45679 | 12707 | 25123 | 775636 |
| GROUND FISH TRAWL | | | | | | | | | | | | | |
| FISH: | | | | | | | | | | | | | |
| Cabezon..... | 0 | 45 | 0 | 0 | 166 | 28 | 0 | 268 | 763 | 18 | 0 | 0 | 1288 |
| Cod, Pacific..... | 60895 | 34825 | 18930 | 142117 | 189949 | 243996 | 337947 | 416161 | 144472 | 38317 | 15373 | 62179 | 1705161 |
| Flounder, arrowtooth.. | 95827 | 152076 | 101512 | 126689 | 170811 | 316446 | 432874 | 340584 | 283303 | 186722 | 155882 | 132678 | 2495404 |

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1989. (CONT.)

| GEAR/SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|---------|---------|---------|--------|---------|---------|-----------|---------|----------|----------|----------|
| Flounder, starry..... | 833 | 4276 | 2091 | 8700 | 166806 | 87982 | 50331 | 58605 | 43430 | 2392 | 787 | 3581 | 429814 |
| Grenadier..... | 240 | 1090 | 7250 | 12558 | 7665 | 10990 | 13250 | 18201 | 19159 | 10855 | 9413 | 2310 | 112981 |
| Halibut, Pacific..... | 0 | 200 | 0 | 0 | 0 | 0 | 15 | 12 | 0 | 278 | 23 | 49 | 577 |
| Lingcod..... | 45032 | 53095 | 29255 | 74351 | 217233 | 271377 | 317686 | 330646 | 416680 | 262516 | 82160 | 92403 | 2192434 |
| Mackerel, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 26 | 2 | 10 | 0 | 0 | 76 |
| Pollock, walleye..... | 0 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| Ratfish..... | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 7 |
| Pacific Ocean perch... | 102533 | 136257 | 103033 | 172120 | 207501 | 216423 | 221746 | 129080 | 142092 | 89348 | 34101 | 104 | 1554338 |
| Nominal POP..... | 355471 | 400829 | 152107 | 235443 | 185950 | 248058 | 318766 | 342578 | 283963 | 202789 | 101322 | 189392 | 3016668 |
| Rockfish, widow..... | 662272 | 596696 | 387294 | 269698 | 272107 | 218511 | 298748 | 499768 | 615235 | 286009 | 56019 | 118261 | 4280618 |
| Rockfish, yellowtail.. | 356571 | 287079 | 231061 | 323897 | 465707 | 434528 | 377204 | 282023 | 465971 | 241815 | 75622 | 130720 | 3672198 |
| Rockfish, other sp.... | 685604 | 678017 | 371134 | 715710 | 772517 | 808115 | 886950 | 1053833 | 1026036 | 855270 | 464164 | 601892 | 8919242 |
| Thornyhead sp..... | 352884 | 422328 | 451460 | 498948 | 425953 | 338168 | 576356 | 551930 | 334464 | 431703 | 547007 | 629924 | 5561125 |
| Sablefish..... | 420892 | 354529 | 445061 | 666883 | 437431 | 343311 | 521762 | 545002 | 508175 | 499755 | 439370 | 560993 | 5743164 |
| Sanddab, Pacific..... | 15541 | 27560 | 9406 | 20760 | 14001 | 7518 | 15052 | 16726 | 15636 | 5780 | 2626 | 11520 | 162126 |
| Sculpin, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| Shad, American..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41 | 0 | 0 | 0 | 41 |
| Shark, sixgill..... | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 0 | 51 |
| Shark, soupfin..... | 40 | 398 | 0 | 28 | 37 | 243 | 842 | 327 | 27 | 0 | 293 | 468 | 2703 |
| Shark, spiny dogfish.. | 0 | 0 | 0 | 0 | 0 | 50 | 68 | 21 | 0 | 490 | 0 | 10 | 639 |
| Shark, thresher..... | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| Shark, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 122 | 0 | 0 | 0 | 0 | 122 |
| Skates and rays..... | 675 | 1866 | 837 | 0 | 272 | 799 | 646 | 1805 | 1010 | 0 | 192 | 109 | 8211 |
| Sole, butter..... | 0 | 0 | 0 | 0 | 63 | 0 | 0 | 1227 | 5 | 1170 | 0 | 0 | 2465 |
| Sole, curlfin (turbot) | 0 | 186 | 52 | 210 | 2472 | 1042 | 1304 | 126 | 0 | 0 | 0 | 0 | 5392 |
| Sole, Dover..... | 1925314 | 1615360 | 1665516 | 2360555 | 1409645 | 963974 | 1165171 | 1402920 | 1678367 | 1786388 | 1611779 | 2005163 | 19590152 |
| Sole, English..... | 69424 | 152889 | 40463 | 74816 | 116358 | 182835 | 243821 | 195658 | 218872 | 105572 | 57765 | 66968 | 1525441 |
| Sole, flathead..... | 0 | 0 | 0 | 0 | 7 | 203 | 867 | 714 | 0 | 5411 | 0 | 0 | 7202 |
| Sole, petrale..... | 479034 | 232581 | 88135 | 84136 | 46690 | 62080 | 128906 | 143975 | 149238 | 79627 | 83113 | 322387 | 1899902 |
| Sole, rex..... | 44313 | 72845 | 29938 | 50478 | 47421 | 60646 | 69553 | 64071 | 87259 | 46958 | 17760 | 31253 | 622495 |

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1989. (CONT.)

| GEAR/SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|---------|---------|---------|---------|---------|---------|-----------|---------|----------|----------|----------|
| Sole, rock..... | 0 | 0 | 0 | 96 | 263 | 3493 | 1370 | 241 | 0 | 0 | 80 | 0 | 5543 |
| Sole, sand..... | 9067 | 4911 | 5005 | 8890 | 69201 | 91665 | 72597 | 129392 | 78866 | 13063 | 1191 | 3229 | 487077 |
| Sturgeon, green..... | 231 | 179 | 194 | 126 | 1545 | 2201 | 429 | 502 | 959 | 246 | 76 | 115 | 6803 |
| Sturgeon, white..... | 53 | 0 | 0 | 0 | 0 | 296 | 20 | 67 | 0 | 0 | 42 | 0 | 478 |
| Whiting, Pac. (hake).. | 0 | 0 | 0 | 0 | 6240 | 0 | 0 | 0 | 0 | 0 | 1381 | 0 | 7621 |
| Wolf-eel..... | 0 | 0 | 0 | 104 | 791 | 654 | 195 | 680 | 701 | 175 | 0 | 0 | 3300 |
| Wrymouth, giant..... | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 40 | 0 | 0 | 20 | 17 | 110 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, box..... | 0 | 0 | 0 | 0 | 0 | 0 | 49 | 28 | 304 | 0 | 0 | 0 | 381 |
| Crab, Tanner..... | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 12 | 0 | 0 | 0 | 0 | 16 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Octopus..... | 242 | 868 | 191 | 400 | 782 | 1240 | 1099 | 917 | 664 | 258 | 259 | 76 | 6996 |
| Squid..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 11 | 0 | 31 |
| TOTAL | 5683018 | 5231043 | 4139925 | 5847713 | 5235584 | 4916872 | 6055708 | 6528328 | 6515714 | 5152935 | 3757831 | 4965801 | 64030472 |
| <u>MIDWATER TRAWL</u> | | | | | | | | | | | | | |
| FISH: | | | | | | | | | | | | | |
| Cod, Pacific..... | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 2500 | 0 | 0 | 0 | 0 | 2510 |
| Lingcod..... | 44 | 328 | 39 | 1052 | 1205 | 990 | 0 | 0 | 0 | 0 | 0 | 0 | 3658 |
| Pacific Ocean perch... | 0 | 700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 700 |
| Nominal POP..... | 0 | 2928 | 4226 | 805 | 0 | 0 | 761 | 0 | 0 | 0 | 0 | 0 | 8720 |
| Rockfish, widow..... | 2620056 | 2280310 | 1885926 | 1740735 | 217341 | 257383 | 554124 | 565886 | 613450 | 214121 | 0 | 0 | 10949332 |
| Rockfish, yellowtail.. | 4848 | 36624 | 16290 | 54843 | 11085 | 8493 | 13598 | 11611 | 5910 | 6517 | 0 | 0 | 169819 |
| Rockfish, other sp.... | 7425 | 17717 | 4250 | 57628 | 800 | 500 | 4377 | 20575 | 1322 | 0 | 0 | 0 | 114594 |
| Thornyhead sp..... | 0 | 9 | 0 | 120 | 0 | 0 | 175 | 0 | 0 | 0 | 0 | 0 | 304 |
| Sablefish..... | 100 | 0 | 0 | 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 210 |
| Sole, Dover..... | 116 | 0 | 0 | 0 | 0 | 0 | 0 | 200 | 0 | 0 | 0 | 0 | 316 |
| Sole, English..... | 0 | 0 | 0 | 0 | 0 | 0 | 272 | 0 | 0 | 0 | 0 | 0 | 272 |
| Sole, rex..... | 0 | 0 | 0 | 0 | 0 | 0 | 163 | 0 | 0 | 0 | 0 | 0 | 163 |
| Whiting, Pac. (hake).. | 0 | 0 | 0 | 65114 | 0 | 0 | 0 | 0 | 49168 | 42129 | 31882 | 0 | 188293 |

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1989. (CONT.)

| GEAR/SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|---------|---------|---------|---------|---------|---------|-----------|---------|----------|----------|----------|
| TOTAL | 2632589 | 2338626 | 1910731 | 1920407 | 230431 | 267366 | 573470 | 600772 | 669850 | 262767 | 31882 | 0 | 11438891 |
| <u>SHRIMP TRAWL</u> | | | | | | | | | | | | | |
| FISH: | | | | | | | | | | | | | |
| Cod, Pacific..... | 0 | 0 | 0 | 4622 | 4106 | 951 | 8 | 409 | 333 | 1643 | 0 | 0 | 12072 |
| Flounder, arrowtooth.. | 0 | 0 | 0 | 138 | 443 | 2505 | 272 | 2486 | 2721 | 957 | 0 | 0 | 9522 |
| Flounder, starry..... | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 10 |
| Hagfish sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 12 |
| Halibut, Pacific..... | 0 | 0 | 0 | 0 | 17 | 142 | 0 | 0 | 41 | 0 | 0 | 0 | 200 |
| Lingcod..... | 0 | 0 | 0 | 10176 | 14615 | 10484 | 3243 | 20794 | 15250 | 11218 | 0 | 0 | 85780 |
| Mackerel, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3754 | 0 | 0 | 0 | 0 | 3754 |
| Pacific Ocean perch... | 0 | 0 | 0 | 120 | 1328 | 375 | 31 | 268 | 12 | 120 | 0 | 0 | 2254 |
| Nominal POP..... | 0 | 0 | 0 | 953 | 457 | 1861 | 2764 | 5245 | 461 | 491 | 0 | 0 | 12232 |
| Rockfish, widow..... | 0 | 0 | 0 | 128 | 3827 | 26 | 0 | 1188 | 531 | 13 | 0 | 0 | 5713 |
| Rockfish, yellowtail.. | 0 | 0 | 0 | 58935 | 70801 | 44895 | 13740 | 13606 | 8841 | 12875 | 0 | 0 | 223693 |
| Rockfish, other sp.... | 0 | 0 | 0 | 156280 | 323809 | 232904 | 63259 | 130735 | 122187 | 64730 | 0 | 0 | 1093904 |
| Thornyhead sp..... | 0 | 0 | 0 | 0 | 2 | 17 | 2 | 230 | 64 | 97 | 0 | 0 | 412 |
| Sablefish..... | 0 | 0 | 0 | 143 | 2399 | 2449 | 4830 | 25802 | 9430 | 5536 | 0 | 0 | 50589 |
| Sanddab, Pacific..... | 0 | 0 | 0 | 151 | 0 | 0 | 0 | 0 | 0 | 620 | 0 | 0 | 771 |
| Shark, soupfin..... | 0 | 0 | 0 | 0 | 27 | 0 | 0 | 39 | 27 | 107 | 0 | 0 | 200 |
| Skates and rays..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 6 |
| Sole, Dover..... | 0 | 0 | 0 | 1470 | 2051 | 4597 | 4547 | 15139 | 13417 | 6473 | 0 | 0 | 47694 |
| Sole, English..... | 0 | 0 | 0 | 265 | 177 | 83 | 63 | 447 | 244 | 280 | 0 | 0 | 1559 |
| Sole, flathead..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 50 |
| Sole, petrale..... | 0 | 0 | 0 | 171 | 226 | 99 | 25 | 153 | 248 | 250 | 0 | 0 | 1172 |
| Sole, rex..... | 0 | 0 | 0 | 120 | 322 | 0 | 10 | 18 | 5 | 19 | 0 | 0 | 494 |
| Sole, sand..... | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Sturgeon, green..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 30 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Shrimp, pink..... | 0 | 0 | 0 | 8253871 | 9349972 | 7012652 | 3542496 | 8273472 | 7353482 | 5342969 | 0 | 0 | 49128914 |

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1989. (CONT.)

| GEAR/SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|--------|---------|---------|---------|---------|---------|-----------|---------|----------|----------|----------|
| Shrimp, spot..... | 0 | 0 | 0 | 0 | 0 | 0 | 74 | 0 | 0 | 0 | 0 | 0 | 74 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Octopus..... | 0 | 0 | 0 | 260 | 13 | 115 | 16 | 69 | 51 | 0 | 0 | 0 | 524 |
| TOTAL | 0 | 0 | 0 | 8487804 | 9774592 | 7314155 | 3635390 | 8493854 | 7527351 | 5448490 | 0 | 0 | 50681636 |
| SQUID NET | | | | | | | | | | | | | |
| MOLLUSKS: | | | | | | | | | | | | | |
| Squid..... | 0 | 0 | 0 | 0 | 95994 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95994 |
| TOTAL | 0 | 0 | 0 | 0 | 95994 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95994 |
| CRAB POT | | | | | | | | | | | | | |
| FISH: | | | | | | | | | | | | | |
| Cabezon..... | 182 | 223 | 14 | 111 | 173 | 0 | 269 | 32 | 0 | 0 | 0 | 48 | 1052 |
| Flounder, starry..... | 0 | 50 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 54 |
| Irish Lord, brown..... | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Lingcod..... | 18 | 75 | 14 | 17 | 104 | 30 | 10 | 0 | 0 | 0 | 0 | 27 | 295 |
| Rockfish, other sp.... | 46 | 228 | 81 | 69 | 278 | 244 | 36 | 0 | 0 | 0 | 0 | 159 | 1141 |
| Skates and rays..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Sole, curlfin (turbot) | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 28 |
| Sole, petrale..... | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| Sole, rex..... | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| Sole, rock..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Sole, sand..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 |
| Wolf-eel..... | 22 | 52 | 55 | 288 | 131 | 89 | 71 | 0 | 0 | 0 | 0 | 57 | 765 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, box..... | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 31 |
| Crab, Dungeness, ocean | 2791502 | 1378145 | 550587 | 619286 | 508381 | 187504 | 239226 | 101445 | 0 | 0 | 0 | 5236345 | 11612421 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Octopus..... | 943 | 356 | 405 | 405 | 10 | 8 | 0 | 0 | 0 | 0 | 0 | 5570 | 7697 |

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1989. (CONT.)

| GEAR/SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|----------------------------|---------|----------|--------|--------|--------|--------|--------|--------|-----------|---------|----------|----------|----------|
| TOTAL | 2792731 | 1379152 | 551176 | 620201 | 509077 | 187875 | 239612 | 101477 | 0 | 0 | 0 | 5242236 | 11623537 |
| <u>CRAB RING</u> | | | | | | | | | | | | | |
| FISH: | | | | | | | | | | | | | |
| Wolf-eel..... | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, Dungeness, bay.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21359 | 21277 | 20031 | 811 | 63478 |
| Crab, rock..... | 0 | 0 | 175 | 0 | 191 | 127 | 203 | 104 | 79 | 20 | 125 | 136 | 1160 |
| TOTAL | 0 | 0 | 175 | 0 | 193 | 127 | 203 | 104 | 21438 | 21297 | 20156 | 947 | 64640 |
| <u>CLAM SHOVEL OR RAKE</u> | | | | | | | | | | | | | |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, mole..... | 0 | 0 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Clams, butter..... | 0 | 135 | 208 | 504 | 609 | 58 | 180 | 0 | 0 | 0 | 0 | 29 | 1723 |
| Clams, cockle..... | 150 | 0 | 0 | 240 | 1363 | 87 | 0 | 0 | 0 | 0 | 0 | 0 | 1840 |
| Clams, gaper..... | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 110 | 0 | 0 | 0 | 100 | 310 |
| Clams, razor..... | 2162 | 1457 | 2222 | 8417 | 7845 | 4555 | 1056 | 0 | 723 | 1621 | 1271 | 848 | 32177 |
| Clams, softshell..... | 0 | 0 | 0 | 216 | 375 | 0 | 445 | 100 | 0 | 0 | 0 | 0 | 1136 |
| OTHER INVERTEBRATES: | | | | | | | | | | | | | |
| Bloodworms..... | 0 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| TOTAL | 2412 | 1592 | 2435 | 9380 | 10220 | 4700 | 1681 | 210 | 723 | 1621 | 1271 | 977 | 37222 |
| <u>HAND DEVICE</u> | | | | | | | | | | | | | |
| FISH: | | | | | | | | | | | | | |
| Lamprey, Pacific..... | 0 | 0 | 0 | 0 | 0 | 5984 | 2382 | 0 | 0 | 0 | 0 | 0 | 8366 |
| Pikeminnow, northern.. | 0 | 0 | 0 | 24 | 6 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| Sculpin, buffalo..... | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Sucker, largescale.... | 0 | 0 | 0 | 20 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1989. (CONT.)

| GEAR/SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|-----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|
| CRUSTACEANS: | | | | | | | | | | | | | |
| Barnacle, gooseneck... | 90 | 250 | 0 | 52 | 130 | 15 | 0 | 15 | 4 | 5 | 0 | 0 | 561 |
| Crab, Dungeness, bay.. | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Crab, rock..... | 763 | 810 | 727 | 215 | 362 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2877 |
| Shrimp, brine..... | 0 | 0 | 0 | 0 | 6200 | 9300 | 12300 | 2000 | 0 | 0 | 0 | 0 | 29800 |
| Water flea (Daphnia).. | 0 | 3000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3000 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Clams, butter..... | 0 | 0 | 0 | 210 | 150 | 0 | 0 | 0 | 0 | 1073 | 416 | 234 | 2083 |
| Clams, cockle..... | 4586 | 4525 | 5144 | 10688 | 0 | 7030 | 0 | 3270 | 700 | 300 | 381 | 5880 | 42504 |
| Clams, gaper..... | 0 | 550 | 0 | 0 | 0 | 0 | 0 | 0 | 45 | 792 | 1195 | 2272 | 4854 |
| Clams, littleneck..... | 47 | 54 | 75 | 539 | 285 | 142 | 764 | 1432 | 1496 | 979 | 165 | 54 | 6032 |
| Mussels, ocean..... | 6436 | 4146 | 6223 | 7825 | 9812 | 9796 | 4768 | 3340 | 2097 | 2276 | 3314 | 5015 | 65048 |
| Mussels, freshwater... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3773 | 0 | 0 | 0 | 3773 |
| Octopus..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 11 |
| Scallops, rock..... | 0 | 125 | 0 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 220 |
| OTHER INVERTEBRATES: | | | | | | | | | | | | | |
| Sea urchin, red..... | 217509 | 357516 | 217559 | 744209 | 856590 | 865345 | 819323 | 818713 | 1149794 | 698257 | 461567 | 636276 | 7842658 |
| Worms, tube..... | 0 | 0 | 60 | 0 | 893 | 775 | 210 | 0 | 0 | 0 | 0 | 0 | 1938 |
| TOTAL | 229431 | 370976 | 229788 | 763884 | 874436 | 898399 | 839747 | 828770 | 1157909 | 703682 | 467049 | 649731 | 8013802 |
| BAITSHRIMP PUMP | | | | | | | | | | | | | |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Shrimp, ghost..... | 3028 | 2232 | 3464 | 5452 | 8908 | 9091 | 6948 | 6312 | 7144 | 9623 | 3865 | 1973 | 68040 |
| Shrimp, mud..... | 8436 | 4721 | 5714 | 3209 | 1160 | 843 | 724 | 1213 | 1444 | 1812 | 4886 | 6833 | 40995 |
| TOTAL | 11464 | 6953 | 9178 | 8661 | 10068 | 9934 | 7672 | 7525 | 8588 | 11435 | 8751 | 8806 | 109035 |
| BAITFISH NET | | | | | | | | | | | | | |
| FISH: | | | | | | | | | | | | | |
| Herring, Pacific..... | 0 | 528855 | 0 | 16638 | 0 | 276 | 0 | 0 | 0 | 0 | 0 | 0 | 545769 |
| Smelt, whitebait..... | 0 | 0 | 0 | 0 | 1229 | 90 | 3193 | 0 | 0 | 0 | 0 | 0 | 4512 |

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1989. (CONT.)

| GEAR/SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|----------------------|----------|----------|---------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|-----------|
| Smelt, other sp..... | 0 | 0 | 0 | 0 | 725 | 3202 | 4744 | 1015 | 0 | 0 | 0 | 0 | 9686 |
| TOTAL | 0 | 528855 | 0 | 16638 | 1954 | 3568 | 7937 | 1015 | 0 | 0 | 0 | 0 | 559967 |
| <u>CRAYFISH TRAP</u> | | | | | | | | | | | | | |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crayfish..... | 0 | 0 | 0 | 4982 | 14172 | 48774 | 64466 | 46423 | 38109 | 21064 | 0 | 0 | 237990 |
| TOTAL | 0 | 0 | 0 | 4982 | 14172 | 48774 | 64466 | 46423 | 38109 | 21064 | 0 | 0 | 237990 |
| TOTAL | 11489738 | 10183419 | 7230544 | 18321566 | 18961061 | 15547936 | 15066472 | 19627025 | 20046032 | 13620762 | 4600362 | 10928735 | 165623652 |

In previous Pounds and Values reports, Tables 25-41 listed landings by port, by gear, by species, and by month. These tables have been excluded from this report to reduce printing costs. Copies are available from ODFW at the address on the front page of this report.

TABLE 42. ESTIMATED VALUE (\$), AT THE FISHERMEN'S LEVEL, OF COMMERCIAL FISH AND SHELLFISH LANDINGS BY PORT IN OREGON, 1989

| SPECIES | COLUMBIA | | PACIFIC | | DEPOE | | WINCHESTER | | | PORT | GOLD | | OTHER 2/ | TOTAL | |
|------------------------|----------|---------|-----------|--------|-------|---------|------------|--------|------------|--------|--------|-------|-----------|-------|-----------|
| | RIVER 1/ | ASTORIA | GARIBALDI | CITY | BAY | NEWPORT | FLORENCE | BAY | CHARLESTON | BANDON | ORFORD | BEACH | BROOKINGS | | LOCATIONS |
| FISH: | | | | | | | | | | | | | | | |
| Anchovy, northern..... | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Cabazon..... | 0 | 0 | 255 | 266 | 2954 | 567 | 0 | 33 | 159 | 0 | 111 | 0 | 9 | 0 | 4354 |
| Cod, Pacific..... | 0 | 339940 | 35525 | 0 | 0 | 69214 | 0 | 37 | 3559 | 0 | 0 | 0 | 39 | 0 | 448314 |
| Flounder, arrowtooth.. | 0 | 193867 | 17464 | 0 | 1 | 15270 | 0 | 13 | 14755 | 0 | 2 | 0 | 986 | 0 | 242358 |
| Flounder, starry..... | 3913 | 96851 | 4573 | 0 | 1 | 21225 | 0 | 98 | 5981 | 0 | 0 | 0 | 571 | 0 | 133213 |
| Greenling sp..... | 0 | 0 | 0 | 0 | 85 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 99 |
| Grenadier..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4064 | 0 | 0 | 0 | 13856 | 0 | 17920 |
| Hagfish sp..... | 0 | 58561 | 0 | 0 | 0 | 44695 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 103256 |
| Halibut, Pacific..... | 0 | 927789 | 64653 | 402 | 3498 | 196795 | 0 | 48921 | 33354 | 5364 | 21268 | 0 | 422 | 0 | 1302466 |
| Herring, Pacific..... | 0 | 0 | 0 | 0 | 0 | 267416 | 0 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 267457 |
| Irish Lord, brown..... | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Irish Lord, red..... | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Lamprey, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2950 | 2950 |
| Lingcod..... | 0 | 348190 | 59316 | 11441 | 9454 | 188507 | 236 | 2471 | 170436 | 409 | 30065 | 1835 | 48941 | 6 | 871307 |
| Mackerel, Pacific..... | 0 | 8 | 218 | 252 | 143 | 524 | 0 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 1174 |
| Pikeminnow, northern.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Pollock, walleye..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 5 |
| Ratfish..... | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Pacific Ocean perch... | 0 | 340731 | 1951 | 0 | 0 | 67041 | 0 | 0 | 22443 | 0 | 0 | 0 | 0 | 0 | 432166 |
| Nominal POP..... | 0 | 167685 | 163467 | 0 | 0 | 246063 | 0 | 54 | 139583 | 0 | 0 | 0 | 20555 | 0 | 737407 |
| Rockfish, widow..... | 0 | 1052418 | 71919 | 0 | 0 | 2214738 | 86 | 0 | 343058 | 0 | 0 | 0 | 241097 | 0 | 3923316 |
| Rockfish, yellowtail.. | 0 | 737266 | 65279 | 0 | 0 | 119004 | 48 | 1 | 138514 | 0 | 0 | 0 | 39627 | 0 | 1099739 |
| Rockfish, other sp.... | 0 | 1355923 | 104894 | 14715 | 18336 | 975925 | 900 | 4578 | 492513 | 5343 | 96487 | 1795 | 63268 | 42 | 3134719 |
| Thornyhead sp..... | 0 | 471318 | 29646 | 0 | 0 | 124055 | 0 | 29 | 754619 | 251 | 0 | 0 | 670522 | 0 | 2050440 |
| Sablefish..... | 0 | 835830 | 90921 | 0 | 4708 | 883760 | 286631 | 102260 | 1202690 | 77811 | 25062 | 0 | 324869 | 0 | 3834542 |
| Salmon, chinook..... | 2777549 | 109745 | 569618 | 138722 | 35780 | 1692777 | 286094 | 719469 | 2983957 | 294129 | 640890 | 20898 | 374911 | 7672 | 10652211 |
| Salmon, chum..... | 1714 | 0 | 51 | 77 | 0 | 210 | 0 | 87 | 5 | 0 | 0 | 0 | 0 | 0 | 2144 |
| Salmon, coho..... | 1323196 | 126729 | 324294 | 239763 | 92328 | 510025 | 90487 | 194659 | 360805 | 68855 | 64320 | 0 | 8455 | 51038 | 3454954 |

TABLE 42. ESTIMATED VALUE (\$), AT THE FISHERMEN'S LEVEL, OF COMMERCIAL FISH AND SHELLFISH LANDINGS BY PORT IN OREGON, 1989(CONT.)

| SPECIES | COLUMBIA | | PACIFIC | | DEPOE | | WINCHESTER | | | PORT | GOLD | OTHER 2/ | | TOTAL | |
|------------------------|----------|---------|-----------|------|-------|---------|------------|-------|------------|--------|--------|----------|-----------|-------|-----------|
| | RIVER 1/ | ASTORIA | GARIBALDI | CITY | BAY | NEWPORT | FLORENCE | BAY | CHARLESTON | BANDON | ORFORD | BEACH | BROOKINGS | | LOCATIONS |
| Salmon, pink..... | 0 | 165 | 2849 | 2612 | 391 | 2378 | 38 | 848 | 2914 | 230 | 528 | 0 | 36 | 122 | 13111 |
| Salmon, sockeye..... | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| Sanddab, Pacific..... | 0 | 20563 | 2708 | 0 | 0 | 14074 | 0 | 0 | 3253 | 0 | 0 | 0 | 771 | 0 | 41369 |
| Sculpin, buffalo..... | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Sculpin, other sp..... | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Shad, American..... | 29632 | 6 | 1 | 0 | 0 | 0 | 9962 | 34049 | 0 | 0 | 0 | 0 | 0 | 0 | 73650 |
| Shark, sixgill..... | 0 | 0 | 0 | 0 | 20 | 22 | 0 | 0 | 6 | 0 | 26 | 0 | 0 | 0 | 74 |
| Shark, soupfin..... | 0 | 1822 | 89 | 0 | 19 | 545 | 0 | 0 | 104 | 0 | 0 | 0 | 535 | 0 | 3114 |
| Shark, spiny dogfish.. | 0 | 279 | 0 | 0 | 19 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 333 |
| Shark, thresher..... | 0 | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| Shark, other sp..... | 0 | 73 | 13 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95 |
| Skates and rays..... | 0 | 138 | 408 | 0 | 0 | 1987 | 0 | 51 | 70 | 0 | 0 | 0 | 0 | 0 | 2654 |
| Smelt (eulachon)..... | 4194 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4194 |
| Smelt, whitebait..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1451 | 0 | 1451 |
| Smelt, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1924 | 0 | 1924 |
| Sole, butter..... | 0 | 0 | 324 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 293 | 0 | 617 |
| Sole, curlfin (turbot) | 0 | 0 | 33 | 0 | 0 | 941 | 0 | 2 | 931 | 0 | 0 | 0 | 0 | 0 | 1907 |
| Sole, Dover..... | 0 | 2453889 | 287795 | 0 | 1 | 494467 | 0 | 26 | 1947723 | 0 | 0 | 0 | 288699 | 0 | 5472600 |
| Sole, English..... | 0 | 309555 | 20816 | 0 | 0 | 105996 | 0 | 0 | 113382 | 0 | 0 | 0 | 13089 | 0 | 562838 |
| Sole, flathead..... | 0 | 2742 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2755 |
| Sole, petrale..... | 0 | 629807 | 98818 | 0 | 0 | 299023 | 0 | 19 | 508324 | 0 | 0 | 0 | 53984 | 0 | 1589975 |
| Sole, rex..... | 0 | 150032 | 9904 | 0 | 0 | 34990 | 0 | 0 | 17034 | 0 | 0 | 0 | 15345 | 0 | 227305 |
| Sole, rock..... | 0 | 0 | 0 | 0 | 0 | 198 | 0 | 0 | 1909 | 0 | 0 | 0 | 5 | 0 | 2112 |
| Sole, sand..... | 0 | 179911 | 32882 | 0 | 0 | 86329 | 0 | 562 | 52089 | 0 | 0 | 0 | 12099 | 0 | 363872 |
| Steelhead..... | 136572 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 136572 |
| Sturgeon, green..... | 1717 | 1164 | 282 | 0 | 0 | 1728 | 0 | 0 | 526 | 0 | 0 | 0 | 27 | 0 | 5444 |
| Sturgeon, white..... | 384724 | 188 | 0 | 0 | 0 | 313 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 385225 |
| Sucker, largescale.... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Surfperch spp..... | 0 | 0 | 0 | 0 | 1 | 593 | 0 | 0 | 31 | 0 | 0 | 0 | 2185 | 0 | 2810 |

TABLE 42. ESTIMATED VALUE (\$), AT THE FISHERMEN'S LEVEL, OF COMMERCIAL FISH AND SHELLFISH LANDINGS BY PORT IN OREGON, 1989(CONT.)

| SPECIES | COLUMBIA | | PACIFIC | | DEPOE | | WINCHESTER | | | PORT | GOLD | | OTHER 2/ | TOTAL | |
|------------------------|----------|---------|-----------|------|-------|---------|------------|--------|------------|--------|--------|-------|-----------|--------|-----------|
| | RIVER 1/ | ASTORIA | GARIBALDI | CITY | BAY | NEWPORT | FLORENCE | BAY | CHARLESTON | BANDON | ORFORD | BEACH | BROOKINGS | | LOCATIONS |
| Tuna, albacore..... | 0 | 341753 | 297 | 0 | 0 | 255264 | 4559 | 80939 | 174004 | 11261 | 0 | 222 | 18942 | 0 | 887241 |
| Walleye..... | 4649 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4649 |
| Whiting, Pac. (hake).. | 0 | 1069 | 0 | 0 | 0 | 13459 | 0 | 0 | 97 | 0 | 0 | 0 | 0 | 0 | 14625 |
| Wolf-eel..... | 0 | 453 | 271 | 23 | 334 | 218 | 0 | 1 | 170 | 0 | 1 | 0 | 0 | 0 | 1471 |
| Wrymouth, giant..... | 0 | 12 | 0 | 0 | 0 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| CRUSTACEANS: | | | | | | | | | | | | | | | |
| Barnacle, gooseneck... | 0 | 0 | 0 | 0 | 113 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1825 | 1938 |
| Crab, box..... | 0 | 0 | 0 | 0 | 0 | 108 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 108 |
| Crab, Dungeness, bay.. | 0 | 0 | 33 | 0 | 0 | 2044 | 6559 | 10632 | 51752 | 221 | 0 | 0 | 0 | 30330 | 101571 |
| Crab, Dungeness, ocean | 0 | 4555019 | 651514 | 323 | 78291 | 3259219 | 318621 | 788506 | 1711666 | 12921 | 489695 | 8610 | 1588303 | 0 | 13462688 |
| Crab, mole..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 8 |
| Crab, rock..... | 0 | 0 | 0 | 0 | 4 | 4033 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4037 |
| Crab, Tanner..... | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| Crayfish..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 318466 | 318466 |
| Shrimp, brine..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46260 | 46260 |
| Shrimp, ghost..... | 0 | 0 | 7966 | 6287 | 0 | 0 | 363 | 0 | 19602 | 0 | 0 | 0 | 0 | 63685 | 97903 |
| Shrimp, mud..... | 0 | 0 | 22351 | 0 | 0 | 0 | 0 | 0 | 90 | 0 | 0 | 0 | 0 | 44682 | 67123 |
| Shrimp, pink..... | 0 | 3709869 | 843933 | 0 | 0 | 6716440 | 0 | 26666 | 4797552 | 0 | 113087 | 0 | 1698718 | 0 | 17906265 |
| Shrimp, spot..... | 0 | 259 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 259 |
| Water flea (Daphnia).. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3000 | 3000 |
| MOLLUSKS: | | | | | | | | | | | | | | | |
| Clams, butter..... | 0 | 0 | 643 | 0 | 0 | 0 | 0 | 0 | 904 | 0 | 0 | 0 | 0 | 0 | 1547 |
| Clams, cockle..... | 0 | 0 | 20031 | 0 | 0 | 0 | 0 | 53 | 256 | 0 | 0 | 0 | 0 | 303 | 20643 |
| Clams, gaper..... | 0 | 0 | 50 | 0 | 0 | 1122 | 0 | 0 | 578 | 0 | 0 | 0 | 0 | 0 | 1750 |
| Clams, littleneck..... | 0 | 0 | 8814 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 132 | 8951 |
| Clams, razor..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 87962 | 87962 |
| Clams, softshell..... | 0 | 0 | 0 | 0 | 0 | 50 | 271 | 0 | 102 | 16 | 0 | 0 | 0 | 11 | 450 |
| Mussels, ocean..... | 0 | 0 | 0 | 0 | 1260 | 506 | 429 | 13559 | 231 | 2590 | 840 | 0 | 0 | 2456 | 21871 |
| Mussels, freshwater... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1094 | 1094 |

TABLE 42. ESTIMATED VALUE (\$), AT THE FISHERMEN'S LEVEL, OF COMMERCIAL FISH AND SHELLFISH LANDINGS BY PORT IN OREGON, 1989(CONT.)

| SPECIES | COLUMBIA | | PACIFIC | | DEPOE | | WINCHESTER | | | | PORT | GOLD | | OTHER 2/ | TOTAL |
|----------------------|----------|----------|-----------|--------|--------|----------|------------|---------|------------|--------|---------|--------|-----------|-----------|----------|
| | RIVER 1/ | ASTORIA | GARIBALDI | CITY | BAY | NEWPORT | FLORENCE | BAY | CHARLESTON | BANDON | ORFORD | BEACH | BROOKINGS | LOCATIONS | |
| Octopus..... | 0 | 1713 | 689 | 0 | 182 | 1347 | 0 | 0 | 152 | 0 | 646 | 12 | 3884 | 0 | 8625 |
| Scallops, rock..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 10 |
| Squid..... | 0 | 0 | 1 | 0 | 0 | 7682 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7683 |
| OTHER INVERTEBRATES: | | | | | | | | | | | | | | | |
| Sea urchin, red..... | 0 | 0 | 0 | 0 | 2608 | 31148 | 0 | 0 | 27373 | 0 | 2109250 | 538871 | 19022 | 0 | 2728272 |
| Bloodworms..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 11 |
| Worms, tube..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 773 | 0 | 0 | 0 | 0 | 0 | 773 |
| TOTAL | 4667905 | 19523381 | 3617572 | 414883 | 250531 | 18974129 | 1005284 | 2028665 | 16104143 | 479401 | 3592288 | 572251 | 5527440 | 662039 | 77419912 |

1/ OREGON LANDINGS ONLY

2/ LANDINGS AT SEASIDE/GEARHART, CANNON BEACH, NEHALEM BAY, NETARTS BAY, SILETZ BAY, WALDPOR, AND INLAND WATERS.

SEE TABLE 63 FOR LANDINGS OF CRAYFISH, FRESHWATER MUSSELS, PACIFIC LAMPREY AND BRINE SHRIMP BY COUNTY.

TABLE 43. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS IN OREGON, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|--------|--------|---------|---------|---------|---------|-----------|---------|----------|----------|----------|
| FISH: | | | | | | | | | | | | | |
| Anchovy, northern..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 15 |
| Cabezon..... | 167 | 156 | 103 | 1188 | 1486 | 106 | 320 | 175 | 373 | 16 | 103 | 161 | 4354 |
| Cod, Pacific..... | 17128 | 9091 | 5141 | 38286 | 50453 | 63699 | 87969 | 108966 | 37656 | 10105 | 3931 | 15889 | 448314 |
| Flounder, arrowtooth.. | 11217 | 16259 | 10761 | 13452 | 18092 | 31485 | 39276 | 30558 | 25414 | 18113 | 15180 | 12551 | 242358 |
| Flounder, starry..... | 333 | 1390 | 907 | 2620 | 50131 | 26543 | 15148 | 17933 | 15845 | 1059 | 240 | 1064 | 133213 |
| Greenling sp..... | 1 | 0 | 0 | 11 | 20 | 26 | 24 | 17 | 0 | 0 | 0 | 0 | 99 |
| Grenadier..... | 38 | 174 | 1160 | 2033 | 1226 | 1758 | 2119 | 2916 | 3093 | 1753 | 1418 | 232 | 17920 |
| Hagfish sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 16520 | 3519 | 24719 | 29931 | 18779 | 9788 | 103256 |
| Halibut, Pacific..... | 0 | 120 | 0 | 0 | 37529 | 408257 | 52617 | 81359 | 455450 | 267050 | 30 | 54 | 1302466 |
| Herring, Pacific..... | 0 | 264736 | 108 | 2570 | 0 | 41 | 2 | 0 | 0 | 0 | 0 | 0 | 267457 |
| Irish Lord, brown..... | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Irish Lord, red..... | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Lamprey, Pacific..... | 0 | 0 | 0 | 0 | 0 | 2354 | 596 | 0 | 0 | 0 | 0 | 0 | 2950 |
| Lingcod..... | 16662 | 34625 | 26593 | 51595 | 85715 | 100146 | 112310 | 123304 | 160733 | 97430 | 28228 | 33966 | 871307 |
| Mackerel, Pacific..... | 0 | 0 | 0 | 0 | 0 | 15 | 704 | 447 | 7 | 1 | 0 | 0 | 1174 |
| Pikeminnow, northern.. | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Pollock, walleye..... | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Ratfish..... | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 3 | 0 | 0 | 0 | 0 | 11 |
| Pacific Ocean perch... | 28673 | 38063 | 28768 | 47971 | 58092 | 60515 | 61551 | 35650 | 39299 | 24506 | 9054 | 24 | 432166 |
| Nominal POP..... | 88189 | 98726 | 37980 | 56161 | 45591 | 60891 | 79224 | 84242 | 69421 | 48357 | 23830 | 44795 | 737407 |
| Rockfish, widow..... | 845327 | 746746 | 579624 | 518373 | 127342 | 123448 | 219015 | 275478 | 316005 | 127890 | 14344 | 29724 | 3923316 |
| Rockfish, yellowtail.. | 97543 | 87651 | 67732 | 119189 | 147852 | 131776 | 108823 | 83157 | 130334 | 70681 | 20142 | 34859 | 1099739 |
| Rockfish, other sp.... | 200871 | 205635 | 127035 | 325531 | 333686 | 305839 | 300791 | 372833 | 383490 | 285142 | 128023 | 165843 | 3134719 |
| Thornyhead sp..... | 130437 | 156338 | 166257 | 183645 | 157199 | 123836 | 212050 | 200396 | 123308 | 159654 | 206333 | 230987 | 2050440 |
| Sablefish..... | 225224 | 212608 | 218071 | 473609 | 646522 | 566116 | 576299 | 195686 | 186756 | 189240 | 153514 | 190897 | 3834542 |
| Salmon, chinook..... | 0 | 273598 | 298266 | 2478 | 2236554 | 1380104 | 1558216 | 2254532 | 1950047 | 534899 | 163517 | 0 | 10652211 |
| Salmon, chum..... | 0 | 0 | 0 | 0 | 218 | 116 | 80 | 16 | 4 | 1203 | 507 | 0 | 2144 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 8260 | 1657368 | 407255 | 404291 | 869440 | 108340 | 0 | 3454954 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 928 | 1918 | 7708 | 2548 | 9 | 0 | 0 | 0 | 13111 |

TABLE 43. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS IN OREGON, 1989. (CONT.)

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|--------|--------|--------|--------|--------|--------|-----------|---------|----------|----------|---------|
| Salmon, sockeye..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 4 | 0 | 0 | 0 | 30 |
| Sanddab, Pacific..... | 3888 | 6899 | 2353 | 5314 | 3570 | 2084 | 3815 | 4232 | 4058 | 1695 | 746 | 2715 | 41369 |
| Sculpin, buffalo..... | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Sculpin, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Shad, American..... | 0 | 0 | 0 | 0 | 27845 | 45446 | 352 | 0 | 7 | 0 | 0 | 0 | 73650 |
| Shark, sixgill..... | 0 | 6 | 0 | 0 | 0 | 20 | 0 | 22 | 0 | 0 | 26 | 0 | 74 |
| Shark, soupfin..... | 20 | 350 | 0 | 14 | 90 | 464 | 576 | 275 | 76 | 143 | 450 | 656 | 3114 |
| Shark, spiny dogfish.. | 0 | 0 | 0 | 10 | 2 | 7 | 16 | 17 | 2 | 273 | 0 | 6 | 333 |
| Shark, thresher..... | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| Shark, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 86 | 0 | 0 | 0 | 0 | 95 |
| Skates and rays..... | 217 | 579 | 268 | 49 | 87 | 257 | 216 | 577 | 315 | 0 | 53 | 36 | 2654 |
| Smelt (eulachon)..... | 0 | 80 | 4114 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4194 |
| Smelt, whitebait..... | 0 | 0 | 0 | 0 | 368 | 30 | 1053 | 0 | 0 | 0 | 0 | 0 | 1451 |
| Smelt, other sp..... | 0 | 0 | 0 | 0 | 131 | 641 | 949 | 203 | 0 | 0 | 0 | 0 | 1924 |
| Sole, butter..... | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 307 | 1 | 293 | 0 | 0 | 617 |
| Sole, curlfin (turbot) | 0 | 61 | 19 | 76 | 930 | 347 | 430 | 42 | 0 | 0 | 0 | 2 | 1907 |
| Sole, Dover..... | 539120 | 452309 | 469056 | 661368 | 395238 | 270981 | 327437 | 396756 | 472993 | 500439 | 442168 | 544735 | 5472600 |
| Sole, English..... | 26293 | 58041 | 15347 | 28258 | 44041 | 68980 | 88274 | 73277 | 80172 | 38211 | 19597 | 22347 | 562838 |
| Sole, flathead..... | 0 | 0 | 0 | 0 | 3 | 77 | 330 | 271 | 0 | 2074 | 0 | 0 | 2755 |
| Sole, petrale..... | 398801 | 194473 | 74496 | 70838 | 39734 | 53007 | 106992 | 121630 | 125714 | 67335 | 69600 | 267355 | 1589975 |
| Sole, rex..... | 16744 | 27487 | 11313 | 19039 | 18066 | 22649 | 25639 | 22904 | 29779 | 16951 | 6312 | 10422 | 227305 |
| Sole, rock..... | 0 | 0 | 0 | 36 | 100 | 1328 | 521 | 91 | 5 | 1 | 30 | 0 | 2112 |
| Sole, sand..... | 6802 | 3686 | 3758 | 6663 | 51759 | 68514 | 53975 | 96691 | 59005 | 9801 | 894 | 2324 | 363872 |
| Steelhead..... | 0 | 5794 | 25570 | 0 | 0 | 0 | 0 | 26279 | 78929 | 0 | 0 | 0 | 136572 |
| Sturgeon, green..... | 116 | 105 | 97 | 68 | 797 | 1144 | 297 | 437 | 1943 | 319 | 63 | 58 | 5444 |
| Sturgeon, white..... | 1765 | 57533 | 119301 | 2735 | 0 | 322 | 30 | 116126 | 53394 | 24664 | 9355 | 0 | 385225 |
| Sucker, largescale.... | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Surfperch spp..... | 13 | 279 | 685 | 755 | 3 | 164 | 288 | 297 | 0 | 144 | 170 | 12 | 2810 |
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 31421 | 302378 | 410099 | 134844 | 8499 | 0 | 887241 |
| Walleye..... | 0 | 104 | 3808 | 0 | 0 | 0 | 0 | 308 | 429 | 0 | 0 | 0 | 4649 |

TABLE 43. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS IN OREGON, 1989. (CONT.)

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|--------|---------|---------|---------|---------|---------|-----------|---------|----------|----------|----------|
| Whiting, Pac. (hake).. | 0 | 0 | 0 | 5188 | 749 | 0 | 0 | 0 | 3442 | 2949 | 2297 | 0 | 14625 |
| Wolf-eel..... | 4 | 16 | 20 | 182 | 462 | 228 | 142 | 174 | 177 | 45 | 2 | 19 | 1471 |
| Wrymouth, giant..... | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 7 | 0 | 0 | 3 | 2 | 18 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Barnacle, gooseneck... | 450 | 1375 | 0 | 26 | 65 | 9 | 0 | 8 | 2 | 3 | 0 | 0 | 1938 |
| Crab, box..... | 5 | 0 | 0 | 0 | 0 | 0 | 12 | 7 | 76 | 0 | 0 | 8 | 108 |
| Crab, Dungeness, bay.. | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 34048 | 35336 | 31017 | 1167 | 101571 |
| Crab, Dungeness, ocean | 3025041 | 1501738 | 617066 | 729895 | 619150 | 226365 | 270436 | 122277 | 0 | 0 | 0 | 6350720 | 13462688 |
| Crab, mole..... | 0 | 0 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Crab, rock..... | 763 | 810 | 902 | 215 | 553 | 127 | 203 | 104 | 79 | 20 | 125 | 136 | 4037 |
| Crab, Tanner..... | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 12 | 0 | 0 | 0 | 0 | 16 |
| Crayfish..... | 0 | 0 | 0 | 6221 | 17943 | 63758 | 88062 | 63546 | 52078 | 26858 | 0 | 0 | 318466 |
| Shrimp, brine..... | 0 | 0 | 0 | 0 | 9300 | 13950 | 19210 | 3800 | 0 | 0 | 0 | 0 | 46260 |
| Shrimp, ghost..... | 5792 | 2933 | 5546 | 8212 | 13147 | 15211 | 10907 | 7292 | 9375 | 10951 | 5381 | 3156 | 97903 |
| Shrimp, mud..... | 13279 | 7544 | 9382 | 5332 | 1917 | 1409 | 1210 | 2027 | 2413 | 3028 | 8164 | 11418 | 67123 |
| Shrimp, pink..... | 0 | 0 | 0 | 3211099 | 3526202 | 2611249 | 1243702 | 2872652 | 2569657 | 1871704 | 0 | 0 | 17906265 |
| Shrimp, spot..... | 0 | 0 | 0 | 0 | 0 | 0 | 259 | 0 | 0 | 0 | 0 | 0 | 259 |
| Water flea (Daphnia).. | 0 | 3000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3000 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Clams, butter..... | 0 | 95 | 146 | 406 | 411 | 41 | 81 | 0 | 0 | 215 | 99 | 53 | 1547 |
| Clams, cockle..... | 2117 | 1810 | 2045 | 5179 | 428 | 3901 | 0 | 1308 | 350 | 120 | 187 | 3198 | 20643 |
| Clams, gaper..... | 30 | 413 | 0 | 0 | 0 | 0 | 0 | 66 | 9 | 188 | 386 | 658 | 1750 |
| Clams, littleneck..... | 59 | 68 | 94 | 801 | 429 | 213 | 1150 | 2150 | 2251 | 1482 | 179 | 75 | 8951 |
| Clams, razor..... | 6055 | 4066 | 6223 | 23569 | 21335 | 11482 | 2666 | 0 | 2024 | 4559 | 3566 | 2417 | 87962 |
| Clams, softshell..... | 0 | 0 | 0 | 98 | 106 | 0 | 201 | 45 | 0 | 0 | 0 | 0 | 450 |
| Mussels, ocean..... | 1779 | 1386 | 1301 | 4199 | 2898 | 2879 | 1422 | 959 | 942 | 1585 | 1028 | 1493 | 21871 |
| Mussels, freshwater... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1094 | 0 | 0 | 0 | 1094 |
| Octopus..... | 818 | 689 | 406 | 784 | 456 | 852 | 650 | 570 | 375 | 185 | 137 | 2703 | 8625 |
| Scallops, rock..... | 0 | 6 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Squid..... | 0 | 0 | 0 | 0 | 7679 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 7683 |

TABLE 43. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS IN OREGON, 1989. (CONT.)

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|----------------------|---------|----------|---------|---------|---------|---------|---------|---------|-----------|---------|----------|----------|----------|
| OTHER INVERTEBRATES: | | | | | | | | | | | | | |
| Sea urchin, red..... | 87713 | 148236 | 101186 | 345831 | 384705 | 253396 | 211576 | 206252 | 345956 | 223277 | 147348 | 272796 | 2728272 |
| Bloodworms..... | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Worms, tube..... | 0 | 0 | 24 | 0 | 355 | 310 | 84 | 0 | 0 | 0 | 0 | 0 | 773 |
| TOTAL | 5799543 | 4627892 | 3043037 | 6981186 | 9189718 | 7139092 | 7603342 | 8727478 | 8667545 | 5716162 | 1653396 | 8271521 | 77419912 |

TABLE 44. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS FROM THE COLUMBIA RIVER, 1989. 1/

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|-----------------------------|---------|----------|--------|-------|-------|-------|------|--------|-----------|---------|----------|----------|---------|
| <u>BELOW BONNEVILLE DAM</u> | | | | | | | | | | | | | |
| FISH: | | | | | | | | | | | | | |
| Anchovy, northern..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 15 |
| Flounder, starry..... | 0 | 48 | 266 | 0 | 0 | 0 | 0 | 428 | 2876 | 295 | 0 | 0 | 3913 |
| Salmon, chinook..... | 0 | 273598 | 298266 | 0 | 0 | 0 | 0 | 583007 | 782732 | 131050 | 10903 | 0 | 2079556 |
| Salmon, chum..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1203 | 507 | 0 | 1714 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3194 | 339496 | 869440 | 108340 | 0 | 1320470 |
| Shad, American..... | 0 | 0 | 0 | 0 | 15105 | 14349 | 178 | 0 | 0 | 0 | 0 | 0 | 29632 |
| Smelt (eulachon)..... | 0 | 80 | 4114 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4194 |
| Sturgeon, green..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 121 | 1404 | 169 | 23 | 0 | 1717 |
| Sturgeon, white..... | 0 | 9192 | 5798 | 0 | 0 | 0 | 0 | 116059 | 53394 | 24664 | 9302 | 0 | 218409 |
| TOTAL | 0 | 282918 | 308444 | 0 | 15105 | 14349 | 178 | 702809 | 1179921 | 1026821 | 129075 | 0 | 3659620 |
| <u>ABOVE BONNEVILLE DAM</u> | | | | | | | | | | | | | |
| FISH: | | | | | | | | | | | | | |
| Salmon, chinook..... | 0 | 0 | 0 | 2478 | 0 | 0 | 0 | 171379 | 524136 | 0 | 0 | 0 | 697993 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 102 | 2624 | 0 | 0 | 0 | 2726 |
| Salmon, sockeye..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 4 | 0 | 0 | 0 | 30 |
| Steelhead..... | 0 | 5794 | 25570 | 0 | 0 | 0 | 0 | 26279 | 78929 | 0 | 0 | 0 | 136572 |
| Sturgeon, white..... | 1736 | 48341 | 113503 | 2735 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 166315 |
| Walleye..... | 0 | 104 | 3808 | 0 | 0 | 0 | 0 | 308 | 429 | 0 | 0 | 0 | 4649 |
| TOTAL | 1736 | 54239 | 142881 | 5213 | 0 | 0 | 0 | 198094 | 606122 | 0 | 0 | 0 | 1008285 |
| TOTAL | 1736 | 337157 | 451325 | 5213 | 15105 | 14349 | 178 | 900903 | 1786043 | 1026821 | 129075 | 0 | 4667905 |

1/ OREGON LANDINGS ONLY

TABLE 45. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT ASTORIA, 1989. 1/ 2/

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|--------|--------|--------|--------|--------|--------|-----------|---------|----------|----------|---------|
| FISH: | | | | | | | | | | | | | |
| Cod, Pacific..... | 7563 | 6974 | 4835 | 36590 | 44785 | 46566 | 73746 | 59433 | 32636 | 8550 | 2774 | 15488 | 339940 |
| Flounder, arrowtooth.. | 9532 | 12129 | 7644 | 10968 | 15114 | 27840 | 33698 | 26781 | 19629 | 12216 | 8827 | 9489 | 193867 |
| Flounder, starry..... | 0 | 756 | 130 | 2471 | 46711 | 18645 | 5398 | 14032 | 7933 | 410 | 227 | 138 | 96851 |
| Hagfish sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 16520 | 3519 | 0 | 9955 | 18779 | 9788 | 58561 |
| Halibut, Pacific..... | 0 | 0 | 0 | 0 | 19456 | 184517 | 208 | 81270 | 375769 | 266569 | 0 | 0 | 927789 |
| Lingcod..... | 6284 | 7775 | 4751 | 10383 | 25952 | 48379 | 36246 | 62374 | 72372 | 45521 | 12179 | 15974 | 348190 |
| Mackerel, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 1 | 0 | 0 | 0 | 8 |
| Pacific Ocean perch... | 17924 | 20708 | 21689 | 39656 | 49719 | 51044 | 50692 | 28638 | 32462 | 20557 | 7642 | 0 | 340731 |
| Nominal POP..... | 7568 | 4017 | 1180 | 1868 | 12533 | 20671 | 32049 | 30867 | 25866 | 12322 | 7734 | 11010 | 167685 |
| Rockfish, widow..... | 158529 | 180812 | 99446 | 134775 | 41470 | 66614 | 75741 | 102527 | 119762 | 50861 | 5260 | 16621 | 1052418 |
| Rockfish, yellowtail.. | 45109 | 41441 | 49493 | 82645 | 96953 | 97169 | 89360 | 59991 | 97910 | 41124 | 10769 | 25302 | 737266 |
| Rockfish, other sp.... | 59229 | 55052 | 63317 | 152163 | 150343 | 166264 | 132358 | 157126 | 165563 | 147521 | 54288 | 52699 | 1355923 |
| Thornyhead sp..... | 31729 | 24279 | 35295 | 63366 | 44137 | 47463 | 37401 | 33772 | 21411 | 42970 | 35295 | 54200 | 471318 |
| Sablefish..... | 67168 | 51958 | 64638 | 110481 | 75224 | 77400 | 57028 | 61213 | 56950 | 60543 | 59233 | 93994 | 835830 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 37699 | 20260 | 9225 | 23785 | 18616 | 160 | 0 | 0 | 109745 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 14146 | 58994 | 53589 | 0 | 0 | 0 | 126729 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 0 | 16 | 136 | 8 | 5 | 0 | 0 | 0 | 165 |
| Sanddab, Pacific..... | 320 | 2014 | 284 | 3775 | 2994 | 1284 | 2977 | 2225 | 1753 | 805 | 252 | 1880 | 20563 |
| Shad, American..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 6 |
| Shark, soupfin..... | 20 | 0 | 0 | 14 | 0 | 149 | 545 | 261 | 38 | 0 | 168 | 627 | 1822 |
| Shark, spiny dogfish.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 273 | 0 | 6 | 279 |
| Shark, thresher..... | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| Shark, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 73 | 0 | 0 | 0 | 0 | 73 |
| Skates and rays..... | 0 | 65 | 0 | 0 | 0 | 0 | 2 | 0 | 41 | 0 | 30 | 0 | 138 |
| Sole, Dover..... | 162442 | 168287 | 230561 | 407846 | 193968 | 120150 | 144466 | 179842 | 206484 | 177162 | 185207 | 277474 | 2453889 |
| Sole, English..... | 10753 | 33568 | 5164 | 13040 | 28475 | 46980 | 62650 | 35969 | 35937 | 15814 | 7817 | 13388 | 309555 |
| Sole, flathead..... | 0 | 0 | 0 | 0 | 3 | 77 | 330 | 271 | 0 | 2061 | 0 | 0 | 2742 |
| Sole, petrale..... | 122213 | 81132 | 38195 | 58191 | 29579 | 33327 | 37270 | 33207 | 48203 | 26023 | 23891 | 98576 | 629807 |
| Sole, rex..... | 7667 | 13190 | 5156 | 13959 | 14051 | 17259 | 19387 | 17202 | 21488 | 11120 | 3829 | 5724 | 150032 |

TABLE 45. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT ASTORIA, 1989. 1/ 2/

(CONT.)

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|--------|---------|---------|---------|---------|---------|-----------|---------|----------|----------|----------|
| Sole, sand..... | 0 | 811 | 1158 | 4890 | 26583 | 23153 | 21795 | 61717 | 33624 | 3009 | 848 | 2323 | 179911 |
| Sturgeon, green..... | 0 | 16 | 0 | 68 | 225 | 439 | 91 | 96 | 66 | 123 | 40 | 0 | 1164 |
| Sturgeon, white..... | 0 | 0 | 0 | 0 | 0 | 38 | 30 | 67 | 0 | 0 | 53 | 0 | 188 |
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 9258 | 60314 | 220856 | 50117 | 1208 | 0 | 341753 |
| Whiting, Pac. (hake).. | 0 | 0 | 0 | 320 | 749 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1069 |
| Wolf-eel..... | 0 | 0 | 0 | 19 | 107 | 134 | 47 | 75 | 49 | 22 | 0 | 0 | 453 |
| Wrymouth, giant..... | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 0 | 0 | 3 | 2 | 12 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, Dungeness, ocean | 1544755 | 761739 | 242943 | 386929 | 272799 | 107482 | 114790 | 36288 | 0 | 0 | 0 | 1087294 | 4555019 |
| Shrimp, pink..... | 0 | 0 | 0 | 570498 | 780349 | 679659 | 369838 | 583831 | 432166 | 293528 | 0 | 0 | 3709869 |
| Shrimp, spot..... | 0 | 0 | 0 | 0 | 0 | 0 | 259 | 0 | 0 | 0 | 0 | 0 | 259 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Octopus..... | 0 | 138 | 68 | 208 | 272 | 381 | 262 | 143 | 160 | 53 | 18 | 10 | 1713 |
| TOTAL | 2258854 | 1466861 | 875947 | 2105123 | 2010250 | 1903360 | 1447952 | 1815922 | 2101345 | 1299389 | 446371 | 1792007 | 19523381 |

1/ OCEAN LANDINGS ONLY; SEE TABLE 44 FOR COLUMBIA RIVER LANDINGS.

2/ INCLUDES LANDINGS AT WARRENTON AND HAMMOND.

TABLE 45A. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT GEARHART/SEASIDE, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|-------|-------|-------|-------|------|--------|-----------|---------|----------|----------|--------|
| FISH: | | | | | | | | | | | | | |
| Rockfish, other sp.... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2357 | 567 | 0 | 0 | 0 | 2924 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6270 | 2905 | 0 | 0 | 0 | 9175 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Clams, razor..... | 6055 | 4066 | 6223 | 23569 | 21335 | 11482 | 2666 | 0 | 2024 | 4559 | 3566 | 2417 | 87962 |
| TOTAL | 6055 | 4066 | 6223 | 23569 | 21335 | 11482 | 2666 | 8629 | 5496 | 4559 | 3566 | 2417 | 100063 |

TABLE 45B. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT CANNON BEACH, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|----------|----------|----------|----------|----------|----------|-------------|-------------|-------------|----------|----------|----------|--------------|
| FISH: | | | | | | | | | | | | | |
| Lingcod..... | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| Rockfish, other sp.... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 0 | 0 | 679 | 597 | 525 | 0 | 0 | 0 | 1801 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 7026 | 1816 | 1446 | 0 | 0 | 0 | 10288 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 5 | 0 | 0 | 0 | 0 | 22 |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | 7728 | 2419 | 1971 | 0 | 0 | 0 | 12118 |

TABLE 46. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT NEHALEM BAY, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|-----------|-----------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|-----------|-------------|
| CRUSTACEANS: | | | | | | | | | | | | | |
| Shrimp, ghost..... | 41 | 83 | 373 | 206 | 1208 | 713 | 239 | 173 | 382 | 680 | 296 | 50 | 4444 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Clams, littleneck..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 132 | 0 | 0 | 132 |
| TOTAL | 41 | 83 | 373 | 206 | 1208 | 713 | 239 | 173 | 382 | 812 | 296 | 50 | 4576 |

TABLE 47. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT GARIBALDI, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|-------|-------|-------|--------|--------|--------|-----------|---------|----------|----------|--------|
| FISH: | | | | | | | | | | | | | |
| Cabezon..... | 0 | 0 | 0 | 2 | 5 | 0 | 0 | 62 | 177 | 5 | 4 | 0 | 255 |
| Cod, Pacific..... | 5773 | 1888 | 84 | 1377 | 3296 | 6200 | 5483 | 7981 | 1554 | 644 | 1099 | 146 | 35525 |
| Flounder, arrowtooth.. | 152 | 2595 | 976 | 1434 | 463 | 570 | 783 | 231 | 2325 | 2611 | 3821 | 1503 | 17464 |
| Flounder, starry..... | 0 | 0 | 0 | 0 | 23 | 0 | 450 | 2048 | 1998 | 54 | 0 | 0 | 4573 |
| Halibut, Pacific..... | 0 | 0 | 0 | 0 | 17323 | 191 | 0 | 0 | 47139 | 0 | 0 | 0 | 64653 |
| Lingcod..... | 3162 | 2646 | 466 | 4572 | 13140 | 3784 | 5729 | 3604 | 4093 | 11835 | 2213 | 4072 | 59316 |
| Mackerel, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 157 | 60 | 0 | 1 | 0 | 0 | 218 |
| Pacific Ocean perch... | 947 | 631 | 0 | 0 | 270 | 0 | 7 | 72 | 0 | 0 | 0 | 24 | 1951 |
| Nominal POP..... | 6739 | 26813 | 7089 | 19778 | 14591 | 11577 | 17348 | 12248 | 16634 | 13980 | 3349 | 13321 | 163467 |
| Rockfish, widow..... | 8360 | 3710 | 3272 | 31424 | 13013 | 4095 | 1602 | 979 | 2882 | 2017 | 436 | 129 | 71919 |
| Rockfish, yellowtail.. | 5465 | 8996 | 1654 | 10287 | 19276 | 9407 | 987 | 1277 | 2751 | 369 | 2443 | 2367 | 65279 |
| Rockfish, other sp.... | 10098 | 10294 | 842 | 14968 | 16397 | 8087 | 8692 | 10467 | 6600 | 9555 | 3796 | 5098 | 104894 |
| Thornyhead sp..... | 834 | 2454 | 1930 | 4978 | 2187 | 667 | 1628 | 2296 | 2216 | 3167 | 2624 | 4665 | 29646 |
| Sablefish..... | 5092 | 7044 | 7863 | 9137 | 8245 | 4102 | 4822 | 6823 | 9624 | 10819 | 9071 | 8279 | 90921 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 80947 | 117767 | 74348 | 54611 | 184388 | 57557 | 0 | 0 | 569618 |
| Salmon, chum..... | 0 | 0 | 0 | 0 | 14 | 0 | 37 | 0 | 0 | 0 | 0 | 0 | 51 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 277519 | 46079 | 696 | 0 | 0 | 0 | 324294 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 99 | 385 | 1718 | 647 | 0 | 0 | 0 | 0 | 2849 |
| Sanddab, Pacific..... | 0 | 0 | 0 | 366 | 237 | 181 | 198 | 195 | 671 | 428 | 432 | 0 | 2708 |
| Shad, American..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Shark, soupfin..... | 0 | 26 | 0 | 0 | 0 | 0 | 25 | 0 | 38 | 0 | 0 | 0 | 89 |
| Shark, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 13 |
| Skates and rays..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 363 | 45 | 0 | 0 | 0 | 408 |
| Sole, butter..... | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 307 | 1 | 0 | 0 | 0 | 324 |
| Sole, curlfin (turbot) | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 33 |
| Sole, Dover..... | 10738 | 17051 | 15594 | 44975 | 18313 | 9364 | 10125 | 19243 | 25613 | 29880 | 60479 | 26420 | 287795 |
| Sole, English..... | 243 | 664 | 149 | 1202 | 949 | 1530 | 1429 | 4071 | 3734 | 1740 | 4988 | 117 | 20816 |
| Sole, flathead..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 13 |
| Sole, petrale..... | 5552 | 20739 | 19329 | 2710 | 1417 | 4654 | 6714 | 5730 | 5287 | 3885 | 5923 | 16878 | 98818 |

TABLE 47. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT GARIBALDI, 1989.

(CONT.)

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|--------|--------|--------|--------|--------|--------|-----------|---------|----------|----------|---------|
| Sole, rex..... | 283 | 1195 | 296 | 1480 | 658 | 650 | 1582 | 1477 | 758 | 582 | 475 | 468 | 9904 |
| Sole, sand..... | 0 | 0 | 0 | 0 | 464 | 46 | 0 | 20250 | 11570 | 535 | 17 | 0 | 32882 |
| Sturgeon, green..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 114 | 158 | 10 | 0 | 0 | 282 |
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 297 | 0 | 0 | 0 | 0 | 0 | 297 |
| Wolf-eel..... | 0 | 0 | 0 | 0 | 26 | 1 | 2 | 91 | 126 | 23 | 2 | 0 | 271 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, Dungeness, bay.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 24 | 33 |
| Crab, Dungeness, ocean | 119663 | 104610 | 54875 | 88838 | 86254 | 41325 | 32576 | 8799 | 0 | 0 | 0 | 114574 | 651514 |
| Shrimp, ghost..... | 119 | 48 | 278 | 761 | 1062 | 1096 | 1155 | 1010 | 806 | 833 | 569 | 229 | 7966 |
| Shrimp, mud..... | 5247 | 2304 | 4306 | 2314 | 561 | 426 | 301 | 353 | 685 | 879 | 2204 | 2771 | 22351 |
| Shrimp, pink..... | 0 | 0 | 0 | 151398 | 176186 | 151866 | 50829 | 129353 | 118197 | 66104 | 0 | 0 | 843933 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Clams, butter..... | 0 | 0 | 0 | 259 | 279 | 0 | 81 | 0 | 0 | 0 | 24 | 0 | 643 |
| Clams, cockle..... | 2064 | 1810 | 2000 | 5040 | 233 | 3899 | 0 | 1308 | 350 | 120 | 72 | 3135 | 20031 |
| Clams, gaper..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 0 | 50 |
| Clams, littleneck..... | 59 | 68 | 94 | 801 | 429 | 213 | 1150 | 2150 | 2251 | 1350 | 176 | 73 | 8814 |
| Octopus..... | 0 | 30 | 85 | 32 | 15 | 190 | 61 | 159 | 63 | 34 | 6 | 14 | 689 |
| Squid..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| OTHER INVERTEBRATES: | | | | | | | | | | | | | |
| TOTAL | 190590 | 215616 | 121182 | 398133 | 476406 | 382273 | 507835 | 344486 | 453431 | 219030 | 104283 | 204307 | 3617572 |

TABLE 48. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT NETARTS BAY, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| FISH: | | | | | | | | | | | | | |
| Rockfish, other sp.... | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 15 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 0 | 0 | 432 | 0 | 0 | 143 | 0 | 0 | 575 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 3912 | 120 | 0 | 0 | 0 | 0 | 4032 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Barnacle, gooseneck... | 450 | 1375 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1825 |
| Shrimp, mud..... | 7568 | 5048 | 4904 | 2991 | 1337 | 983 | 909 | 1674 | 1728 | 2149 | 5960 | 8647 | 43898 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Mussels, ocean..... | 600 | 600 | 0 | 300 | 0 | 550 | 0 | 0 | 300 | 0 | 0 | 0 | 2350 |
| TOTAL | 8618 | 7023 | 4904 | 3291 | 1337 | 1533 | 5268 | 1794 | 2028 | 2292 | 5960 | 8647 | 52695 |

TABLE 49. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT PACIFIC CITY, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|------------|------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|-------------|------------|------------|---------------|
| FISH: | | | | | | | | | | | | | |
| Cabezon..... | 0 | 1 | 35 | 83 | 48 | 13 | 32 | 24 | 0 | 2 | 28 | 0 | 266 |
| Halibut, Pacific..... | 0 | 0 | 0 | 0 | 0 | 402 | 0 | 0 | 0 | 0 | 0 | 0 | 402 |
| Lingcod..... | 0 | 452 | 1990 | 3470 | 870 | 367 | 1006 | 1447 | 384 | 1085 | 370 | 0 | 11441 |
| Mackerel, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 214 | 38 | 0 | 0 | 0 | 0 | 252 |
| Rockfish, other sp.... | 0 | 0 | 588 | 2480 | 3122 | 1532 | 2122 | 3221 | 995 | 639 | 16 | 0 | 14715 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 4756 | 3309 | 45434 | 41563 | 37102 | 6558 | 0 | 0 | 138722 |
| Salmon, chum..... | 0 | 0 | 0 | 0 | 50 | 0 | 11 | 16 | 0 | 0 | 0 | 0 | 77 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 187690 | 48538 | 3535 | 0 | 0 | 0 | 239763 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 0 | 0 | 1909 | 703 | 0 | 0 | 0 | 0 | 2612 |
| Wolf-eel..... | 0 | 0 | 0 | 0 | 2 | 3 | 16 | 2 | 0 | 0 | 0 | 0 | 23 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, Dungeness, ocean | 0 | 0 | 0 | 0 | 105 | 122 | 0 | 96 | 0 | 0 | 0 | 0 | 323 |
| Shrimp, ghost..... | 146 | 86 | 158 | 213 | 424 | 402 | 652 | 888 | 1123 | 1515 | 423 | 257 | 6287 |
| TOTAL | 146 | 539 | 2771 | 6246 | 9377 | 6150 | 239086 | 96536 | 43139 | 9799 | 837 | 257 | 414883 |

TABLE 49A. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT SALMON RIVER, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|----------|----------|----------|----------|----------|----------|--------------|----------|-----------|----------|----------|----------|--------------|
| FISH: | | | | | | | | | | | | | |
| Rockfish, other sp.... | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 24 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 0 | 0 | 2372 | 0 | 0 | 0 | 0 | 0 | 2372 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 27543 | 0 | 0 | 0 | 0 | 0 | 27543 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 100 |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | 30039 | 0 | 0 | 0 | 0 | 0 | 30039 |

TABLE 50. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT SILETZ BAY, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|---------------------|----------|----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-----------|-----------|-------------|
| CRUSTACEANS: | | | | | | | | | | | | | |
| Shrimp, ghost..... | 0 | 0 | 66 | 65 | 50 | 99 | 116 | 249 | 443 | 236 | 45 | 59 | 1428 |
| TOTAL | 0 | 0 | 66 | 65 | 50 | 99 | 116 | 249 | 443 | 236 | 45 | 59 | 1428 |

TABLE 51. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT DEPOE BAY, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|-----------------------------|--------------|--------------|-------------|--------------|--------------|--------------|---------------|--------------|-------------|-------------|------------|--------------|---------------|
| FISH: | | | | | | | | | | | | | |
| Cabezon..... | 124 | 83 | 68 | 1018 | 1274 | 81 | 165 | 55 | 6 | 9 | 71 | 0 | 2954 |
| Flounder, arrowtooth.. | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Flounder, starry..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Greenling sp..... | 0 | 0 | 0 | 1 | 19 | 26 | 23 | 16 | 0 | 0 | 0 | 0 | 85 |
| Halibut, Pacific..... | 0 | 0 | 0 | 0 | 0 | 3498 | 0 | 0 | 0 | 0 | 0 | 0 | 3498 |
| Lingcod..... | 72 | 963 | 914 | 2660 | 2271 | 556 | 833 | 355 | 280 | 103 | 213 | 234 | 9454 |
| Mackerel, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 137 | 6 | 0 | 0 | 0 | 0 | 143 |
| Rockfish, other sp.... | 55 | 261 | 896 | 4426 | 3556 | 2341 | 4694 | 1857 | 107 | 72 | 26 | 45 | 18336 |
| Sablefish..... | 0 | 898 | 0 | 3799 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 4708 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 6128 | 2847 | 11635 | 7107 | 3437 | 4626 | 0 | 0 | 35780 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 90199 | 2129 | 0 | 0 | 0 | 0 | 92328 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 0 | 0 | 341 | 50 | 0 | 0 | 0 | 0 | 391 |
| Shark, sixgill..... | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| Shark, soupfin..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 19 |
| Shark, spiny dogfish.. | 0 | 0 | 0 | 10 | 2 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 19 |
| Sole, Dover..... | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Surfperch spp..... | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Wolf-eel..... | 3 | 4 | 6 | 93 | 184 | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 334 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Barnacle, gooseneck... | 0 | 0 | 0 | 26 | 65 | 9 | 0 | 8 | 2 | 3 | 0 | 0 | 113 |
| Crab, Dungeness, ocean | 29463 | 16791 | 6616 | 7806 | 3528 | 2736 | 532 | 0 | 0 | 0 | 0 | 10819 | 78291 |
| Crab, rock..... | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Mussels, ocean..... | 0 | 0 | 30 | 149 | 156 | 169 | 290 | 133 | 102 | 63 | 100 | 68 | 1260 |
| Octopus..... | 24 | 0 | 54 | 83 | 5 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 182 |
| OTHER INVERTEBRATES: | | | | | | | | | | | | | |
| Sea urchin, red..... | 0 | 0 | 0 | 0 | 0 | 0 | 2608 | 0 | 0 | 0 | 0 | 0 | 2608 |
| TOTAL | 29741 | 19001 | 8585 | 20071 | 17192 | 12343 | 111469 | 11724 | 3934 | 4876 | 429 | 11166 | 250531 |

TABLE 52. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT NEWPORT, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|--------|--------|--------|--------|--------|--------|-----------|---------|----------|----------|---------|
| FISH: | | | | | | | | | | | | | |
| Cabezon..... | 0 | 2 | 0 | 34 | 59 | 9 | 123 | 30 | 152 | 0 | 0 | 158 | 567 |
| Cod, Pacific..... | 3075 | 186 | 1 | 312 | 2092 | 9862 | 8287 | 41377 | 3151 | 738 | 47 | 86 | 69214 |
| Flounder, arrowtooth.. | 726 | 554 | 1634 | 531 | 1397 | 1483 | 2138 | 1771 | 939 | 2533 | 1135 | 429 | 15270 |
| Flounder, starry..... | 85 | 384 | 470 | 76 | 3389 | 6951 | 6978 | 168 | 2574 | 92 | 2 | 56 | 21225 |
| Greenling sp..... | 1 | 0 | 0 | 10 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 14 |
| Hagfish sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24719 | 19976 | 0 | 0 | 44695 |
| Halibut, Pacific..... | 0 | 120 | 0 | 0 | 750 | 155954 | 6775 | 89 | 32542 | 481 | 30 | 54 | 196795 |
| Herring, Pacific..... | 0 | 264736 | 108 | 2570 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 267416 |
| Irish Lord, brown..... | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Irish Lord, red..... | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Lingcod..... | 2324 | 4703 | 7371 | 12790 | 16170 | 15558 | 40835 | 32755 | 38200 | 9276 | 3835 | 4690 | 188507 |
| Mackerel, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 183 | 335 | 6 | 0 | 0 | 0 | 524 |
| Ratfish..... | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 3 | 0 | 0 | 0 | 0 | 11 |
| Pacific Ocean perch... | 7006 | 13344 | 6237 | 6269 | 4289 | 5206 | 6938 | 6441 | 6494 | 3405 | 1412 | 0 | 67041 |
| Nominal POP..... | 60846 | 52919 | 20348 | 20264 | 6371 | 13048 | 16250 | 23751 | 11159 | 7978 | 3611 | 9518 | 246063 |
| Rockfish, widow..... | 511874 | 484543 | 432992 | 327162 | 35245 | 14112 | 101934 | 128513 | 114663 | 49022 | 5690 | 8988 | 2214738 |
| Rockfish, yellowtail.. | 14534 | 18083 | 9793 | 12145 | 8230 | 9172 | 11780 | 12015 | 10941 | 5130 | 3215 | 3966 | 119004 |
| Rockfish, other sp.... | 64681 | 83333 | 35415 | 103231 | 95269 | 63024 | 84501 | 150514 | 117152 | 68952 | 43306 | 66547 | 975925 |
| Thornyhead sp..... | 13151 | 12353 | 8801 | 5099 | 9367 | 2368 | 13592 | 14328 | 6224 | 18075 | 8482 | 12215 | 124055 |
| Sablefish..... | 14462 | 17556 | 11920 | 54012 | 174126 | 237709 | 218554 | 40653 | 34754 | 46430 | 19155 | 14429 | 883760 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 499902 | 345727 | 443074 | 202435 | 92021 | 102884 | 6734 | 0 | 1692777 |
| Salmon, chum..... | 0 | 0 | 0 | 0 | 67 | 116 | 27 | 0 | 0 | 0 | 0 | 0 | 210 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 466499 | 43526 | 0 | 0 | 0 | 0 | 510025 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 8 | 79 | 1800 | 491 | 0 | 0 | 0 | 0 | 2378 |
| Sanddab, Pacific..... | 3387 | 3782 | 1401 | 1044 | 0 | 0 | 394 | 1641 | 1329 | 270 | 0 | 826 | 14074 |
| Sculpin, buffalo..... | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Sculpin, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Shark, sixgill..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 22 |
| Shark, soupfin..... | 0 | 163 | 0 | 0 | 0 | 283 | 6 | 14 | 0 | 79 | 0 | 0 | 545 |

TABLE 52. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT NEWPORT, 1989.

(CONT.)

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|--------|---------|---------|--------|--------|---------|-----------|---------|----------|----------|---------|
| Shark, spiny dogfish.. | 0 | 0 | 0 | 0 | 0 | 7 | 16 | 10 | 2 | 0 | 0 | 0 | 35 |
| Shark, other sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 9 |
| Skates and rays..... | 217 | 444 | 268 | 0 | 87 | 255 | 214 | 214 | 229 | 0 | 23 | 36 | 1987 |
| Sole, curlfin (turbot) | 0 | 0 | 0 | 7 | 912 | 20 | 0 | 0 | 0 | 0 | 0 | 2 | 941 |
| Sole, Dover..... | 35794 | 25304 | 16422 | 9310 | 19155 | 16400 | 49567 | 42799 | 64851 | 114493 | 60450 | 39922 | 494467 |
| Sole, English..... | 3081 | 7269 | 1820 | 2102 | 5933 | 9589 | 13267 | 20962 | 25662 | 10362 | 2644 | 3305 | 105996 |
| Sole, petrale..... | 35432 | 14858 | 3694 | 1504 | 4697 | 10710 | 54400 | 67436 | 50531 | 22740 | 10202 | 22819 | 299023 |
| Sole, rex..... | 3392 | 7653 | 2654 | 1328 | 996 | 2155 | 2282 | 2785 | 5533 | 3413 | 959 | 1840 | 34990 |
| Sole, rock..... | 0 | 0 | 0 | 0 | 100 | 60 | 6 | 1 | 0 | 1 | 30 | 0 | 198 |
| Sole, sand..... | 1281 | 722 | 1307 | 1275 | 24529 | 37902 | 8516 | 287 | 9654 | 826 | 29 | 1 | 86329 |
| Sturgeon, green..... | 116 | 62 | 97 | 0 | 572 | 547 | 43 | 0 | 216 | 17 | 0 | 58 | 1728 |
| Sturgeon, white..... | 29 | 0 | 0 | 0 | 0 | 284 | 0 | 0 | 0 | 0 | 0 | 0 | 313 |
| Surfperch spp..... | 13 | 1 | 0 | 9 | 3 | 164 | 144 | 259 | 0 | 0 | 0 | 0 | 593 |
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 16088 | 67333 | 136045 | 28507 | 7291 | 0 | 255264 |
| Whiting, Pac. (hake).. | 0 | 0 | 0 | 4868 | 0 | 0 | 0 | 0 | 3442 | 2949 | 2200 | 0 | 13459 |
| Wolf-eel..... | 0 | 11 | 14 | 70 | 70 | 20 | 6 | 6 | 2 | 0 | 0 | 19 | 218 |
| Wrymouth, giant..... | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 5 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, box..... | 5 | 0 | 0 | 0 | 0 | 0 | 12 | 7 | 76 | 0 | 0 | 8 | 108 |
| Crab, Dungeness, bay.. | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 1065 | 962 | 14 | 0 | 2044 |
| Crab, Dungeness, ocean | 743425 | 261079 | 121118 | 110300 | 66968 | 18177 | 19918 | 3763 | 0 | 0 | 0 | 1914471 | 3259219 |
| Crab, rock..... | 763 | 810 | 902 | 215 | 549 | 127 | 203 | 104 | 79 | 20 | 125 | 136 | 4033 |
| Crab, Tanner..... | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 12 | 0 | 0 | 0 | 0 | 16 |
| Shrimp, pink..... | 0 | 0 | 0 | 1237738 | 1363188 | 859241 | 366654 | 1114461 | 1012322 | 762836 | 0 | 0 | 6716440 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Clams, gaper..... | 30 | 413 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 273 | 336 | 1122 |
| Clams, softshell..... | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| Mussels, ocean..... | 0 | 500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 506 |
| Octopus..... | 222 | 47 | 110 | 138 | 64 | 32 | 255 | 208 | 128 | 23 | 6 | 114 | 1347 |

TABLE 52. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT NEWPORT, 1989.

(CONT.)

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|----------------------|---------|----------|--------|---------|---------|---------|---------|---------|-----------|---------|----------|----------|----------|
| Squid..... | 0 | 0 | 0 | 0 | 7679 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 7682 |
| OTHER INVERTEBRATES: | | | | | | | | | | | | | |
| Sea urchin, red..... | 0 | 0 | 0 | 0 | 0 | 0 | 22360 | 0 | 527 | 4376 | 1518 | 2367 | 31148 |
| TOTAL | 1519952 | 1275934 | 684897 | 1914418 | 2352285 | 1836351 | 1984646 | 2021523 | 1807387 | 1286922 | 182418 | 2107396 | 18974129 |

TABLE 53. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT WALDPOR, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|-------|-------|------|------|------|--------|-----------|---------|----------|----------|-------|
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, Dungeness, bay.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10634 | 11846 | 7378 | 472 | 30330 |
| Shrimp, ghost..... | 5121 | 2383 | 3131 | 4687 | 8071 | 9965 | 5600 | 2857 | 4965 | 6374 | 2719 | 1940 | 57813 |
| Shrimp, mud..... | 464 | 192 | 82 | 27 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 784 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Clams, cockle..... | 0 | 0 | 39 | 86 | 0 | 0 | 0 | 0 | 0 | 0 | 115 | 63 | 303 |
| Clams, softshell..... | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Mussels, ocean..... | 0 | 33 | 0 | 40 | 0 | 0 | 0 | 11 | 0 | 22 | 0 | 0 | 106 |
| TOTAL | 5585 | 2608 | 3252 | 4840 | 8101 | 9965 | 5600 | 2868 | 15599 | 18242 | 10212 | 2475 | 89347 |

TABLE 54. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT FLORENCE, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|--------------|--------------|--------------|--------------|---------------|--------------|---------------|--------------|-------------|-------------|------------|---------------|----------------|
| FISH: | | | | | | | | | | | | | |
| Lingcod..... | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 67 | 153 | 1 | 0 | 0 | 236 |
| Rockfish, widow..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 | 40 | 0 | 0 | 0 | 86 |
| Rockfish, yellowtail.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 | 0 | 0 | 0 | 48 |
| Rockfish, other sp.... | 0 | 0 | 0 | 0 | 28 | 18 | 44 | 128 | 510 | 172 | 0 | 0 | 900 |
| Sablefish..... | 0 | 24636 | 14323 | 73291 | 96795 | 32499 | 45087 | 0 | 0 | 0 | 0 | 0 | 286631 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 21816 | 34687 | 213611 | 11693 | 1993 | 2294 | 0 | 0 | 286094 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 87188 | 3299 | 0 | 0 | 0 | 0 | 90487 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 0 | 7 | 29 | 2 | 0 | 0 | 0 | 0 | 38 |
| Shad, American..... | 0 | 0 | 0 | 0 | 1405 | 8383 | 174 | 0 | 0 | 0 | 0 | 0 | 9962 |
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 2016 | 1982 | 561 | 0 | 0 | 0 | 4559 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, Dungeness, bay.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4367 | 2013 | 179 | 0 | 6559 |
| Crab, Dungeness, ocean | 76445 | 34825 | 24162 | 22099 | 15646 | 7616 | 14574 | 5528 | 0 | 0 | 0 | 117726 | 318621 |
| Shrimp, ghost..... | 0 | 0 | 0 | 0 | 5 | 315 | 28 | 0 | 0 | 15 | 0 | 0 | 363 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Clams, softshell..... | 0 | 0 | 0 | 68 | 0 | 0 | 158 | 45 | 0 | 0 | 0 | 0 | 271 |
| Mussels, ocean..... | 0 | 0 | 97 | 53 | 151 | 60 | 68 | 0 | 0 | 0 | 0 | 0 | 429 |
| TOTAL | 76445 | 59461 | 38582 | 95511 | 135846 | 83585 | 362992 | 22790 | 7672 | 4495 | 179 | 117726 | 1005284 |

TABLE 55. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT WINCHESTER BAY, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|-------|-------|--------|--------|--------|--------|-----------|---------|----------|----------|--------|
| FISH: | | | | | | | | | | | | | |
| Cabezon..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 0 | 0 | 0 | 33 |
| Cod, Pacific..... | 0 | 0 | 0 | 0 | 0 | 0 | 37 | 0 | 0 | 0 | 0 | 0 | 37 |
| Flounder, arrowtooth.. | 0 | 0 | 0 | 0 | 0 | 4 | 9 | 0 | 0 | 0 | 0 | 0 | 13 |
| Flounder, starry..... | 0 | 0 | 0 | 0 | 0 | 0 | 90 | 0 | 8 | 0 | 0 | 0 | 98 |
| Halibut, Pacific..... | 0 | 0 | 0 | 0 | 0 | 3287 | 45634 | 0 | 0 | 0 | 0 | 0 | 48921 |
| Herring, Pacific..... | 0 | 0 | 0 | 0 | 0 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
| Lingcod..... | 4 | 218 | 0 | 1043 | 108 | 0 | 143 | 135 | 750 | 70 | 0 | 0 | 2471 |
| Nominal POP..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 54 | 0 | 0 | 54 |
| Rockfish, yellowtail.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Rockfish, other sp.... | 0 | 73 | 0 | 638 | 571 | 55 | 1092 | 654 | 1124 | 371 | 0 | 0 | 4578 |
| Thornyhead sp..... | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 29 |
| Sablefish..... | 0 | 0 | 3324 | 26668 | 59028 | 65 | 13175 | 0 | 0 | 0 | 0 | 0 | 102260 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 250207 | 128952 | 245174 | 74726 | 12085 | 8325 | 0 | 0 | 719469 |
| Salmon, chum..... | 0 | 0 | 0 | 0 | 87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 87 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 174515 | 20144 | 0 | 0 | 0 | 0 | 194659 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 106 | 54 | 621 | 67 | 0 | 0 | 0 | 0 | 848 |
| Shad, American..... | 0 | 0 | 0 | 0 | 11335 | 22714 | 0 | 0 | 0 | 0 | 0 | 0 | 34049 |
| Skates and rays..... | 0 | 0 | 0 | 49 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 51 |
| Sole, curlfin (turbot) | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| Sole, Dover..... | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 7 | 0 | 0 | 0 | 26 |
| Sole, petrale..... | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 19 |
| Sole, sand..... | 0 | 0 | 0 | 0 | 0 | 0 | 449 | 0 | 113 | 0 | 0 | 0 | 562 |
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 1814 | 24358 | 14317 | 40450 | 0 | 0 | 80939 |
| Wolf-eel..... | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Wrymouth, giant..... | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, Dungeness, bay.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6032 | 1884 | 2716 | 0 | 10632 |
| Crab, Dungeness, ocean | 128421 | 59537 | 27454 | 16629 | 48056 | 19180 | 51164 | 35389 | 0 | 0 | 0 | 402676 | 788506 |
| Shrimp, pink..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12204 | 6052 | 8410 | 0 | 0 | 26666 |

TABLE 55. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT WINCHESTER BAY, 1989. (CONT.)

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|---------------------|---------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|--------------|--------------|-------------|---------------|----------------|
| MOLLUSKS: | | | | | | | | | | | | | |
| Clams, cockle..... | 53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 53 |
| Mussels, ocean..... | 1179 | 206 | 1101 | 3220 | 1990 | 2095 | 846 | 715 | 340 | 54 | 688 | 1125 | 13559 |
| TOTAL | 129657 | 60034 | 31879 | 48247 | 371489 | 176449 | 534833 | 168392 | 40862 | 59618 | 3404 | 403801 | 2028665 |

TABLE 56. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT CHARLESTON, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|--------|--------|---------|--------|--------|--------|-----------|---------|----------|----------|---------|
| FISH: | | | | | | | | | | | | | |
| Cabezon..... | 0 | 0 | 0 | 51 | 100 | 0 | 0 | 0 | 5 | 0 | 0 | 3 | 159 |
| Cod, Pacific..... | 689 | 43 | 221 | 7 | 280 | 1065 | 416 | 175 | 315 | 170 | 9 | 169 | 3559 |
| Flounder, arrowtooth.. | 693 | 762 | 507 | 511 | 1118 | 1580 | 2551 | 1720 | 2402 | 558 | 1223 | 1130 | 14755 |
| Flounder, starry..... | 0 | 102 | 7 | 73 | 8 | 947 | 2185 | 1256 | 456 | 77 | 0 | 870 | 5981 |
| Grenadier..... | 0 | 0 | 0 | 1278 | 0 | 0 | 0 | 152 | 1536 | 852 | 246 | 0 | 4064 |
| Halibut, Pacific..... | 0 | 0 | 0 | 0 | 0 | 33354 | 0 | 0 | 0 | 0 | 0 | 0 | 33354 |
| Lingcod..... | 3704 | 13088 | 8690 | 11742 | 16423 | 18601 | 20934 | 14011 | 34871 | 18495 | 3085 | 6792 | 170436 |
| Mackerel, Pacific..... | 0 | 0 | 0 | 0 | 0 | 15 | 13 | 1 | 0 | 0 | 0 | 0 | 29 |
| Pollock, walleye..... | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Pacific Ocean perch... | 2796 | 3380 | 842 | 2046 | 3814 | 4265 | 3914 | 499 | 343 | 544 | 0 | 0 | 22443 |
| Nominal POP..... | 12390 | 10568 | 8059 | 12740 | 10951 | 14087 | 12533 | 14188 | 13573 | 12721 | 7427 | 10346 | 139583 |
| Rockfish, widow..... | 137946 | 42986 | 17963 | 1578 | 10636 | 17437 | 23609 | 18533 | 47745 | 20083 | 1877 | 2665 | 343058 |
| Rockfish, yellowtail.. | 32435 | 18906 | 6792 | 13086 | 12016 | 3762 | 4865 | 4877 | 18683 | 21786 | 1051 | 255 | 138514 |
| Rockfish, other sp.... | 63996 | 50058 | 22875 | 39698 | 44851 | 49347 | 42241 | 29085 | 54506 | 40439 | 19867 | 35550 | 492513 |
| Thornyhead sp..... | 42353 | 81390 | 68391 | 38234 | 34537 | 20773 | 102156 | 70078 | 53671 | 54263 | 74431 | 114342 | 754619 |
| Sablefish..... | 122174 | 83266 | 83785 | 143949 | 184572 | 157504 | 186945 | 50960 | 49981 | 44158 | 37493 | 57903 | 1202690 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 1099625 | 643895 | 396091 | 601471 | 120010 | 115283 | 7582 | 0 | 2983957 |
| Salmon, chum..... | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 5 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 244302 | 116503 | 0 | 0 | 0 | 0 | 360805 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 636 | 1241 | 637 | 400 | 0 | 0 | 0 | 0 | 2914 |
| Sanddab, Pacific..... | 176 | 1029 | 486 | 106 | 332 | 615 | 74 | 106 | 305 | 24 | 0 | 0 | 3253 |
| Shark, sixgill..... | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Shark, soupfin..... | 0 | 104 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 104 |
| Skates and rays..... | 0 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| Sole, curlfin (turbot) | 0 | 61 | 19 | 69 | 0 | 327 | 428 | 27 | 0 | 0 | 0 | 0 | 931 |
| Sole, Dover..... | 303992 | 218851 | 177883 | 177593 | 142911 | 106390 | 104189 | 132629 | 146462 | 140210 | 109597 | 187016 | 1947723 |
| Sole, English..... | 9631 | 14601 | 6920 | 11840 | 8434 | 10727 | 10559 | 11815 | 13262 | 6452 | 3866 | 5275 | 113382 |
| Sole, petrale..... | 213934 | 63484 | 12785 | 8281 | 3292 | 3628 | 7760 | 14792 | 21043 | 12004 | 26230 | 121091 | 508324 |
| Sole, rex..... | 3217 | 2871 | 2625 | 781 | 1561 | 1413 | 1924 | 0 | 78 | 412 | 475 | 1677 | 17034 |

TABLE 56. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT CHARLESTON, 1989.

(CONT.)

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|----------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|-----------------|
| Sole, rock..... | 0 | 0 | 0 | 36 | 0 | 1268 | 515 | 90 | 0 | 0 | 0 | 0 | 1909 |
| Sole, sand..... | 0 | 300 | 93 | 498 | 183 | 7413 | 23215 | 14437 | 4044 | 1906 | 0 | 0 | 52089 |
| Sturgeon, green..... | 0 | 0 | 0 | 0 | 0 | 158 | 163 | 106 | 99 | 0 | 0 | 0 | 526 |
| Surfperch spp..... | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 1948 | 139314 | 19480 | 13262 | 0 | 0 | 174004 |
| Whiting, Pac. (hake).. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 97 | 0 | 97 |
| Wolf-eel..... | 1 | 0 | 0 | 0 | 72 | 26 | 71 | 0 | 0 | 0 | 0 | 0 | 170 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, Dungeness, bay.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11950 | 18505 | 20626 | 671 | 51752 |
| Crab, Dungeness, ocean | 167615 | 105398 | 45062 | 36248 | 49638 | 12723 | 28474 | 26886 | 0 | 0 | 0 | 1239622 | 1711666 |
| Shrimp, ghost..... | 365 | 333 | 1540 | 2280 | 2327 | 2621 | 3117 | 2115 | 1656 | 1298 | 1329 | 621 | 19602 |
| Shrimp, mud..... | 0 | 0 | 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90 |
| Shrimp, pink..... | 0 | 0 | 0 | 962244 | 933564 | 702955 | 292450 | 685919 | 703075 | 517345 | 0 | 0 | 4797552 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Clams, butter..... | 0 | 95 | 146 | 147 | 132 | 41 | 0 | 0 | 0 | 215 | 75 | 53 | 904 |
| Clams, cockle..... | 0 | 0 | 6 | 53 | 195 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 256 |
| Clams, gaper..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 66 | 9 | 118 | 63 | 322 | 578 |
| Clams, littleneck..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 5 |
| Clams, softshell..... | 0 | 0 | 0 | 14 | 45 | 0 | 43 | 0 | 0 | 0 | 0 | 0 | 102 |
| Mussels, ocean..... | 0 | 47 | 73 | 37 | 1 | 5 | 68 | 0 | 0 | 0 | 0 | 0 | 231 |
| Octopus..... | 14 | 47 | 0 | 13 | 7 | 22 | 17 | 0 | 0 | 0 | 0 | 32 | 152 |
| OTHER INVERTEBRATES: | | | | | | | | | | | | | |
| Sea urchin, red..... | 0 | 14538 | 12835 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27373 |
| Bloodworms..... | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Worms, tube..... | 0 | 0 | 24 | 0 | 355 | 310 | 84 | 0 | 0 | 0 | 0 | 0 | 773 |
| TOTAL | 1118121 | 726389 | 478719 | 1465264 | 2562627 | 1818517 | 1518496 | 1952211 | 1319560 | 1041180 | 316652 | 1786407 | 16104143 |

TABLE 57. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT BANDON, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|------------|--------------|------------|--------------|--------------|--------------|---------------|---------------|--------------|--------------|------------|-------------|---------------|
| FISH: | | | | | | | | | | | | | |
| Halibut, Pacific..... | 0 | 0 | 0 | 0 | 0 | 5364 | 0 | 0 | 0 | 0 | 0 | 0 | 5364 |
| Lingcod..... | 0 | 0 | 0 | 0 | 4 | 99 | 136 | 38 | 46 | 4 | 41 | 41 | 409 |
| Rockfish, other sp.... | 0 | 196 | 0 | 0 | 848 | 82 | 1366 | 1953 | 606 | 224 | 68 | 0 | 5343 |
| Thornyhead sp..... | 0 | 251 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 251 |
| Sablefish..... | 0 | 11632 | 0 | 16229 | 23715 | 10170 | 16065 | 0 | 0 | 0 | 0 | 0 | 77811 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 47145 | 10747 | 64325 | 155309 | 7727 | 8454 | 422 | 0 | 294129 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 0 | 44845 | 24010 | 0 | 0 | 0 | 0 | 68855 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 31 | 73 | 44 | 78 | 4 | 0 | 0 | 0 | 230 |
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1502 | 9759 | 0 | 0 | 0 | 11261 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, Dungeness, bay.. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 126 | 95 | 0 | 221 |
| Crab, Dungeness, ocean | 638 | 383 | 587 | 7985 | 646 | 408 | 262 | 301 | 0 | 0 | 0 | 1711 | 12921 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Clams, softshell..... | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| Mussels, ocean..... | 0 | 0 | 0 | 400 | 600 | 0 | 150 | 0 | 0 | 1440 | 0 | 0 | 2590 |
| TOTAL | 638 | 12462 | 587 | 24630 | 72989 | 26943 | 127193 | 183191 | 18142 | 10248 | 626 | 1752 | 479401 |

TABLE 58. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT PORT ORFORD, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|-----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| FISH: | | | | | | | | | | | | | |
| Cabezon..... | 43 | 61 | 0 | 0 | 0 | 3 | 0 | 4 | 0 | 0 | 0 | 0 | 111 |
| Flounder, arrowtooth.. | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Halibut, Pacific..... | 0 | 0 | 0 | 0 | 0 | 21268 | 0 | 0 | 0 | 0 | 0 | 0 | 21268 |
| Lingcod..... | 302 | 1734 | 2058 | 3593 | 1410 | 1784 | 1714 | 4942 | 5603 | 5633 | 1122 | 170 | 30065 |
| Rockfish, other sp.... | 352 | 2933 | 1801 | 5499 | 4500 | 6212 | 18068 | 10994 | 31646 | 10481 | 1396 | 2605 | 96487 |
| Sablefish..... | 0 | 0 | 0 | 977 | 0 | 22614 | 1471 | 0 | 0 | 0 | 0 | 0 | 25062 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 54153 | 4127 | 49473 | 263813 | 35067 | 97022 | 137235 | 0 | 640890 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 208 | 31600 | 32512 | 0 | 0 | 0 | 0 | 64320 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 48 | 31 | 352 | 97 | 0 | 0 | 0 | 0 | 528 |
| Shark, sixgill..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 26 |
| Wolf-eel..... | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, Dungeness, ocean | 18288 | 31081 | 27698 | 18614 | 25720 | 7550 | 6185 | 4788 | 0 | 0 | 0 | 349771 | 489695 |
| Shrimp, pink..... | 0 | 0 | 0 | 16434 | 19323 | 22444 | 23364 | 18308 | 13214 | 0 | 0 | 0 | 113087 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Mussels, ocean..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 200 | 0 | 240 | 300 | 840 |
| Octopus..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 646 | 646 |
| Scallops, rock..... | 0 | 6 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| OTHER INVERTEBRATES: | | | | | | | | | | | | | |
| Sea urchin, red..... | 86761 | 126464 | 73369 | 263457 | 317407 | 198684 | 169017 | 165494 | 193310 | 142457 | 125948 | 246882 | 2109250 |
| TOTAL | 105746 | 162280 | 104926 | 308578 | 422561 | 284927 | 301244 | 501052 | 279040 | 255593 | 265967 | 600374 | 3592288 |

TABLE 59. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT GOLD BEACH, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|-----------------------------|------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|---------------|
| FISH: | | | | | | | | | | | | | |
| Lingcod..... | 0 | 0 | 0 | 0 | 144 | 207 | 411 | 169 | 498 | 194 | 39 | 173 | 1835 |
| Rockfish, other sp.... | 0 | 0 | 0 | 0 | 249 | 283 | 653 | 243 | 89 | 123 | 59 | 96 | 1795 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 6199 | 451 | 0 | 4365 | 9883 | 0 | 0 | 0 | 20898 |
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 222 | 0 | 0 | 0 | 0 | 222 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, Dungeness, ocean | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8610 | 8610 |
| Crab, mole..... | 0 | 0 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Octopus..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 12 |
| OTHER INVERTEBRATES: | | | | | | | | | | | | | |
| Sea urchin, red..... | 952 | 7234 | 14982 | 82374 | 67298 | 54712 | 17591 | 40758 | 152119 | 57422 | 19882 | 23547 | 538871 |
| TOTAL | 952 | 7234 | 14987 | 82377 | 73890 | 55653 | 18655 | 45757 | 162589 | 57739 | 19980 | 32438 | 572251 |

TABLE 60. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT BROOKINGS, 1989.

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|------------------------|---------|----------|-------|-------|--------|-------|-------|--------|-----------|---------|----------|----------|--------|
| FISH: | | | | | | | | | | | | | |
| Cabezon..... | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| Cod, Pacific..... | 28 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 3 | 2 | 0 | 39 |
| Flounder, arrowtooth.. | 114 | 218 | 0 | 8 | 0 | 6 | 97 | 55 | 119 | 195 | 174 | 0 | 986 |
| Flounder, starry..... | 248 | 100 | 34 | 0 | 0 | 0 | 47 | 0 | 0 | 131 | 11 | 0 | 571 |
| Grenadier..... | 38 | 174 | 1160 | 755 | 1226 | 1758 | 2119 | 2764 | 1557 | 901 | 1172 | 232 | 13856 |
| Halibut, Pacific..... | 0 | 0 | 0 | 0 | 0 | 422 | 0 | 0 | 0 | 0 | 0 | 0 | 422 |
| Lingcod..... | 810 | 3046 | 353 | 1342 | 9223 | 10811 | 4302 | 3407 | 3483 | 5213 | 5131 | 1820 | 48941 |
| Nominal POP..... | 646 | 4409 | 1304 | 1511 | 1145 | 1508 | 1044 | 3188 | 2189 | 1302 | 1709 | 600 | 20555 |
| Rockfish, widow..... | 28618 | 34695 | 25951 | 23434 | 26978 | 21190 | 16129 | 24880 | 30913 | 5907 | 1081 | 1321 | 241097 |
| Rockfish, yellowtail.. | 0 | 225 | 0 | 1026 | 11377 | 12266 | 1831 | 4997 | 0 | 2272 | 2664 | 2969 | 39627 |
| Rockfish, other sp.... | 2460 | 3435 | 1301 | 2428 | 13952 | 8594 | 4921 | 6588 | 4592 | 6593 | 5201 | 3203 | 63268 |
| Thornyhead sp..... | 42370 | 35611 | 51840 | 71968 | 66971 | 52565 | 57244 | 79922 | 39786 | 41179 | 85501 | 45565 | 670522 |
| Sablefish..... | 16328 | 15618 | 32218 | 35066 | 24817 | 24053 | 33141 | 36037 | 35447 | 27290 | 28562 | 16292 | 324869 |
| Salmon, chinook..... | 0 | 0 | 0 | 0 | 127977 | 67335 | 2343 | 56314 | 119758 | 543 | 641 | 0 | 374911 |
| Salmon, coho..... | 0 | 0 | 0 | 0 | 0 | 8052 | 384 | 19 | 0 | 0 | 0 | 0 | 8455 |
| Salmon, pink..... | 0 | 0 | 0 | 0 | 0 | 32 | 4 | 0 | 0 | 0 | 0 | 0 | 36 |
| Sanddab, Pacific..... | 5 | 74 | 182 | 23 | 7 | 4 | 172 | 65 | 0 | 168 | 62 | 9 | 771 |
| Shark, soupfin..... | 0 | 57 | 0 | 0 | 90 | 32 | 0 | 0 | 0 | 64 | 263 | 29 | 535 |
| Smelt, whitebait..... | 0 | 0 | 0 | 0 | 368 | 30 | 1053 | 0 | 0 | 0 | 0 | 0 | 1451 |
| Smelt, other sp..... | 0 | 0 | 0 | 0 | 131 | 641 | 949 | 203 | 0 | 0 | 0 | 0 | 1924 |
| Sole, butter..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 293 | 0 | 0 | 293 |
| Sole, Dover..... | 26154 | 22816 | 28596 | 21644 | 20891 | 18677 | 19070 | 22243 | 29576 | 38694 | 26435 | 13903 | 288699 |
| Sole, English..... | 2585 | 1939 | 1294 | 74 | 250 | 154 | 369 | 460 | 1577 | 3843 | 282 | 262 | 13089 |
| Sole, petrale..... | 21670 | 14260 | 493 | 152 | 749 | 688 | 829 | 465 | 650 | 2683 | 3354 | 7991 | 53984 |
| Sole, rex..... | 2185 | 2578 | 582 | 1491 | 800 | 1172 | 464 | 1440 | 1922 | 1424 | 574 | 713 | 15345 |
| Sole, rock..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 5 |
| Sole, sand..... | 5521 | 1853 | 1200 | 0 | 0 | 0 | 0 | 0 | 0 | 3525 | 0 | 0 | 12099 |
| Sturgeon, green..... | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| Surfperch spp..... | 0 | 278 | 684 | 715 | 0 | 0 | 144 | 38 | 0 | 144 | 170 | 12 | 2185 |

TABLE 60. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT BROOKINGS, 1989.

(CONT.)

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|-----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|
| Tuna, albacore..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7353 | 9081 | 2508 | 0 | 0 | 18942 |
| CRUSTACEANS: | | | | | | | | | | | | | |
| Crab, Dungeness, ocean | 196328 | 126295 | 66551 | 34447 | 49790 | 9046 | 1961 | 439 | 0 | 0 | 0 | 1103446 | 1588303 |
| Shrimp, pink..... | 0 | 0 | 0 | 272787 | 253592 | 195084 | 140567 | 328576 | 284631 | 223481 | 0 | 0 | 1698718 |
| MOLLUSKS: | | | | | | | | | | | | | |
| Octopus..... | 558 | 427 | 89 | 310 | 93 | 211 | 55 | 60 | 24 | 75 | 107 | 1875 | 3884 |
| OTHER INVERTEBRATES: | | | | | | | | | | | | | |
| Sea urchin, red..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19022 | 0 | 0 | 19022 |
| TOTAL | 346666 | 268144 | 213832 | 469181 | 610427 | 434337 | 289239 | 579513 | 565310 | 387453 | 163096 | 1200242 | 5527440 |

Table 61. Salmon (Numbers and Pounds) harvested by Oregon private salmon hatcheries 1985-1989.

| | Chinook Adults | Chinook Jacks | Coho Adults | Coho Jacks 1/ | Chum |
|-------------|-------------------|------------------|----------------|------------------|--------|
| <u>1985</u> | | | | | |
| Number | 9,288 | 25,387 | 288,481 | 43,564 | 3,220 |
| Pounds | 118,929 | 113,878 | 1,631,704 | 101,986 | 21,470 |
| <u>1986</u> | | | | | |
| Number | 66,362 | 8,157 | 445,103 | 8,641 | 769 |
| Pounds | 759,610 | 29,558 | 2,345,616 | 15,328 | 6,796 |
| <u>1987</u> | | | | | |
| Number | 36,781 | 1,894 | 119,020 | 1,507 | 265 |
| Pounds | 560,445 | 6,959 | 619,786 | 1,815 | 1,857 |
| <u>1988</u> | | | | | |
| Number | 21,078 | 3,415 | 115,768 | 3,814 | 2,719 |
| Pounds | 363,052 | 10,526 | 580,001 | 4,840 | 21,838 |
| <u>1989</u> | | | | | |
| Number | 13,679 | 723 | 45,455 | 1,492 | 476 |
| Pounds | 209,681 | 2,830 | 205,005 | 1,615 | 4,307 |

1/ May include small adults.

Table 62. Pounds of salmon harvested by Oregon private salmon hatcheries 1989 1/

| Species | March | April | May | June | July | August | September | October | November | December | January | February | Total |
|----------------|-------|-------|-------|--------|-------|--------|-----------|---------|----------|----------|---------|----------|---------|
| <u>Chinook</u> | | | | | | | | | | | | | |
| Adult | -- | 691 | 8,770 | 23,462 | 9,517 | 15,477 | 55,922 | 84,024 | 11,661 | 157 | -- | -- | 209,681 |
| Jack | -- | 675 | 887 | 266 | 97 | 467 | 418 | 20 | -- | -- | -- | -- | 2,830 |
| <u>Coho</u> | | | | | | | | | | | | | |
| Adult | -- | -- | -- | 28 | 96 | 1,357 | 40,668 | 150,641 | 11,225 | 990 | -- | -- | 205,005 |
| Jack 2/ | -- | -- | -- | 1 | -- | 1 | 77 | 1,358 | 169 | 9 | -- | -- | 1,615 |
| <u>Chum</u> | | | | | | | | | | | | | |
| Adult | -- | -- | -- | -- | -- | -- | -- | 136 | 4,171 | -- | -- | -- | 4,307 |
| <u>Total</u> | | | | | | | | | | | | | |
| Adult | -- | 691 | 8,770 | 23,490 | 9,613 | 16,834 | 96,590 | 234,801 | 27,057 | 1,147 | -- | -- | 418,993 |
| Jack | -- | -- | 675 | 888 | 266 | 98 | 544 | 1,776 | 189 | 9 | -- | -- | 4,445 |

1/ Monthly harvest from March through February of the following year.

2/ May include small adults.

TABLE 63. MONTHLY LANDINGS (POUNDS ROUND) OF INLAND SPECIES REPORTED HARVESTED IN OREGON, 1989

| COUNTY/SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|---------------------|---------|----------|-------|-------|------|-------|-------|--------|-----------|---------|----------|----------|-------|
| BAKER | | | | | | | | | | | | | |
| Crayfish | 0 | 0 | 0 | 300 | 663 | 6342 | 10141 | 6187 | 6646 | 8079 | 0 | 0 | 38358 |
| CLACKAMAS | | | | | | | | | | | | | |
| Crayfish | 0 | 0 | 0 | 0 | 0 | 661 | 4013 | 2397 | 2032 | 216 | 0 | 0 | 9319 |
| Lamprey, Pacific | 0 | 0 | 0 | 0 | 0 | 5984 | 2382 | 0 | 0 | 0 | 0 | 0 | 8366 |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 6645 | 6395 | 2397 | 2032 | 216 | 0 | 0 | 17685 |
| CLATSOP | | | | | | | | | | | | | |
| Crayfish | 0 | 0 | 0 | 0 | 0 | 4846 | 4993 | 2841 | 1743 | 5221 | 0 | 0 | 19644 |
| COLUMBIA | | | | | | | | | | | | | |
| Crayfish | 0 | 0 | 0 | 0 | 134 | 683 | 2320 | 1768 | 2338 | 72 | 0 | 0 | 7315 |
| DESCHUTES | | | | | | | | | | | | | |
| Crayfish | 0 | 0 | 0 | 0 | 0 | 297 | 548 | 1223 | 696 | 407 | 0 | 0 | 3171 |
| GRANT | | | | | | | | | | | | | |
| Crayfish | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 212 | 0 | 0 | 0 | 0 | 212 |
| JEFFERSON | | | | | | | | | | | | | |
| Crayfish | 0 | 0 | 0 | 4453 | 9790 | 14799 | 13373 | 11558 | 9635 | 1213 | 0 | 0 | 64821 |
| KLAMATH | | | | | | | | | | | | | |
| Crayfish | 0 | 0 | 0 | 0 | 0 | 0 | 565 | 1607 | 146 | 0 | 0 | 0 | 2318 |
| Waterflea (Daphnia) | 0 | 3000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3000 |
| TOTAL | 0 | 3000 | 0 | 0 | 0 | 0 | 565 | 1607 | 146 | 0 | 0 | 0 | 5318 |
| LAKE | | | | | | | | | | | | | |
| Shrimp, Brine | 0 | 0 | 0 | 0 | 6200 | 9300 | 12300 | 2000 | 0 | 0 | 0 | 0 | 29800 |
| LINCOLN | | | | | | | | | | | | | |
| Crayfish | 0 | 0 | 0 | 0 | 0 | 97 | 0 | 208 | 347 | 0 | 0 | 0 | 652 |

TABLE 63. MONTHLY LANDINGS (POUNDS ROUND) OF INLAND SPECIES REPORTED HARVESTED IN OREGON, 1989

| COUNTY/SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|---------------------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|---------|----------|----------|--------|
| MARION | | | | | | | | | | | | | |
| Crayfish | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 0 | 0 | 0 | 0 | 29 |
| MULTNOMAH | | | | | | | | | | | | | |
| Crayfish | 0 | 0 | 0 | 229 | 628 | 9125 | 16470 | 4905 | 4621 | 4540 | 0 | 0 | 40518 |
| POLK | | | | | | | | | | | | | |
| Crayfish | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 365 | 1249 | 1100 | 0 | 0 | 2714 |
| WASCO | | | | | | | | | | | | | |
| Mussels, Freshwater | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3773 | 0 | 0 | 0 | 3773 |
| WASHINGTON | | | | | | | | | | | | | |
| Crayfish | 0 | 0 | 0 | 0 | 0 | 3663 | 7673 | 11402 | 7670 | 0 | 0 | 0 | 30408 |
| YAMHILL | | | | | | | | | | | | | |
| Crayfish | 0 | 0 | 0 | 0 | 2957 | 8261 | 4370 | 1721 | 986 | 216 | 0 | 0 | 18511 |
| TOTAL | | | | | | | | | | | | | |
| Crayfish | 0 | 0 | 0 | 4982 | 14172 | 48774 | 64466 | 46423 | 38109 | 21064 | 0 | 0 | 237990 |
| Mussels, Freshwater | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3773 | 0 | 0 | 0 | 3773 |
| Lamprey, Pacific | 0 | 0 | 0 | 0 | 0 | 5984 | 2382 | 0 | 0 | 0 | 0 | 0 | 8366 |
| Shrimp, Brine | 0 | 0 | 0 | 0 | 6200 | 9300 | 12300 | 2000 | 0 | 0 | 0 | 0 | 29800 |
| Waterflea (Daphnia) | 0 | 3000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3000 |

Table 64. Oregon oyster production (gallons), 1980-1989 1/

| Bay/Species | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>Tillamook Bay</u> | | | | | | | | | | |
| Kumomoto oyster..... | 0 | 6 | 7 | 0 | 0 | 9 | 4 | 0 | 0 | 0 |
| Pacific oyster..... | 18,912 | 22,575 | 26,174 | 21,330 | 30,964 | 21,204 | 21,325 | 23,930 | 24,084 | 26,052 |
| <u>Netarts Bay</u> | | | | | | | | | | |
| Pacific oyster..... | 60 | 40 | 0 | 0 | 6 | 40 | 30 | 36 | 41 | 216 |
| <u>Yaquina Bay</u> | | | | | | | | | | |
| Kumomoto oyster..... | 1 | 0 | 0 | 1 | 16 | 0 | 0 | 0 | 0 | 0 |
| Pacific oyster..... | 6,240 | 7,020 | 7,713 | 6,423 | 7,210 | 10,911 | 12,130 | 12,798 | 10,924 | 9,602 |
| <u>Coos Bay</u> | | | | | | | | | | |
| Pacific oyster..... | 4,135 | 4,089 | 3,164 | 3,138 | 9,834 | 5,270 | 3,065 | 3,942 | 3,400 | 4,115 |
| TOTAL | 29,348 | 33,730 | 37,058 | 30,892 | 48,030 | 37,434 | 36,554 | 40,706 | 38,449 | 39,985 |

1/ Production data from acres leased from State of Oregon. Does not include private land production.

SOURCE: Oregon Department of Agriculture

APPENDIX

1989 Personal Income Contribution of the Commercial Fishing and Processing Industry to Communities on the Oregon Coast and to Oregon's Economy

An economic input/output (I/O) model can be used to estimate the total economic impact or contribution of an industry. Separate I/O models for each coastal area and for the State of Oregon were used to estimate the total (direct, indirect, and induced) personal income derived from the commercial fishing industry of Oregon.

A total of \$221 million in personal income was generated in all Oregon coastal communities as a result of commercial fishing and processing activities. Because a portion of the dollars generated "leak out" of the coastal economy, the estimated statewide total personal income received by Oregon residents amounted to nearly \$261 million.

Although the commercial fishing industry provides only about one percent of total Oregon earned income, it is extremely important to the coastal economy, providing about 14 percent of coastal earned income in 1969. Table 1 is a summary of the personal income contributions of the industry to coastal areas and the state.

A booklet, *The economic Landscape of the Oregon Coast*, published by the Oregon Coastal Zone Management Association (OCZMA) is recommended for those interested in understanding the structure of Oregon's coastal economy. This booklet described the importance of different economic sectors to the Oregon coastal economy in 1987, and is still useful in providing a detailed perspective on the structure of Oregon's coastal economy. A shorter paper, *Observations on the 1989 Coastal Economy*, is also available from OCZMA.

Table 1. Personal Income Contribution of the Oregon Commercial Fishing and Processing Industry to Oregon Coastal Communities and to Oregon, 1989. (Millions of Dollars) 1/ 2/

| | Astoria and Columbia R. Area | Tillamook Area | Newport Area | Coos Bay Area | Brookings Area | All Coastal Communities | Total Statewide Impact |
|---|------------------------------------|-------------------|-----------------|------------------|-------------------|-------------------------------|------------------------------|
| Oregon Landings | \$59.1 | \$8.0 | \$40.1 | \$37.4 | \$16.4 | \$161.0 | \$186.6 |
| Distant Water | \$9.9 | \$2.0 | \$38.8 | \$8.5 | \$1.2 | \$60.4 | \$74.3 |
| Total | \$69.0 | \$10.0 | \$78.9 | \$45.9 | \$17.6 | \$221.4 | \$260.9 |
| Percent of Total Personal Income 3/ | 12.6% | 3.4% | 13.6% | 4.2% | 6.5% | 7.9% | 0.6% |
| Percent of Total Earned Income 4/ | 19.5% | 6.5% | 24.8% | 7.2% | 13.8% | 13.9% | 0.9% |

1/ Estimates by Hans Radtke (Consulting Economist) and Chris Carter (Staff Economist) with some data provided by the Oregon State University Sea Grant Extension Agents. The personal income impact estimates are calculated with the Commercial Fisheries Economic Assessment Model developed by William Jensen and Hans Radtke for the West Coast Fisheries Development Foundation. Total personal income includes direct, indirect and induced effects.

2/ In most cases the economic impact for areas listed includes impacts for smaller ports in the area. The Tillamook area includes Pacific City. The Newport area includes Depoe Bay. The Coos Bay area includes Florence, Reedsport and Bandon. The Brookings area includes Port Orford and Gold Beach. The impacts of oyster culture and private salmon hatchery returns are not included.

3/ Computed as total income generated directly and indirectly by the commercial fishing and processing industry divided by total income from all sources. Total income from all sources is based on personal income estimates from the U.S. Department of Commerce, Bureau of Economic Analysis. Personal income is the sum of wages and salaries, other labor income, proprietors' income, personal dividend income, personal interest income and transfer payments less personal contributions for social security.

4/ Computed as total income generated directly and indirectly by the commercial fishing and processing industry divided by total earned income. Earned income does not include transfer payments, dividends, interest or rent.