

1988

POUNDS & VALUES  
Of Commercially Caught  
Fish And Shellfish  
Landed In Oregon



OREGON DEPARTMENT OF FISH & WILDLIFE

1988

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by

Jerry Lukas Chris Carter

Oregon Department of Fish and Wildlife

P.O. Box 59

Portland, OR 97207

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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 1988. 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 assemble this material - the commercial fishing industry, wholesale fish dealers, and Oregon Department of Fish and Wildlife personnel. Department biologists reviewed the accuracy of the reported information and data processing personnel spent many hours editing and entering the information for computer tabulation. To all of these people we extend our thanks.



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## EXPLANATION OF TABLES

### Source of Data

Oregon law requires commercial fishermen 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, unloading station, gear used to take the fish or shellfish, pounds landed by species, and price per pound paid to the fisherman. The fish tickets are returned to the Department where they are edited for accuracy and completeness prior to processing for tabulation.

### Landings

Commercial landings are reported for the Columbia River (Oregon landings only), locations along the coast (Fig. 1), and by country for freshwater species. Coastal locations represent the major port or area of landing. These landings include ocean, bay or inland caught fish or shellfish. For ocean caught fish, port of landing does not necessarily indicate the area of catch, as many boats fish coastwide and return to their home port to land their catch.

The common and scientific names of species reported in the commercial catch are shown on Table 1. Fish dealers are required to record each species landed; however, this is not always possible due to the difficulty identifying certain species. The rockfish in particular are a group that are difficult to differentiate because of structural similarities among several species. However some species are distinct and easily identifiable and are reported separately in the tables, such as the yellowtail and widow rockfish.

The widow rockfish, as reported in 1981 and 1982, was 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 tables would only represent harvest of this species from midwater trawl gear. In 1984 we asked fish dealers to report the widow rockfish separately on the ticket since they were being sorted at sea and landed separately by the fishermen.

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 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 thornyheads are confirmed and reported by their scientific genus name Sebastolobus. Prior to 1984 they were included with miscellaneous rockfish.



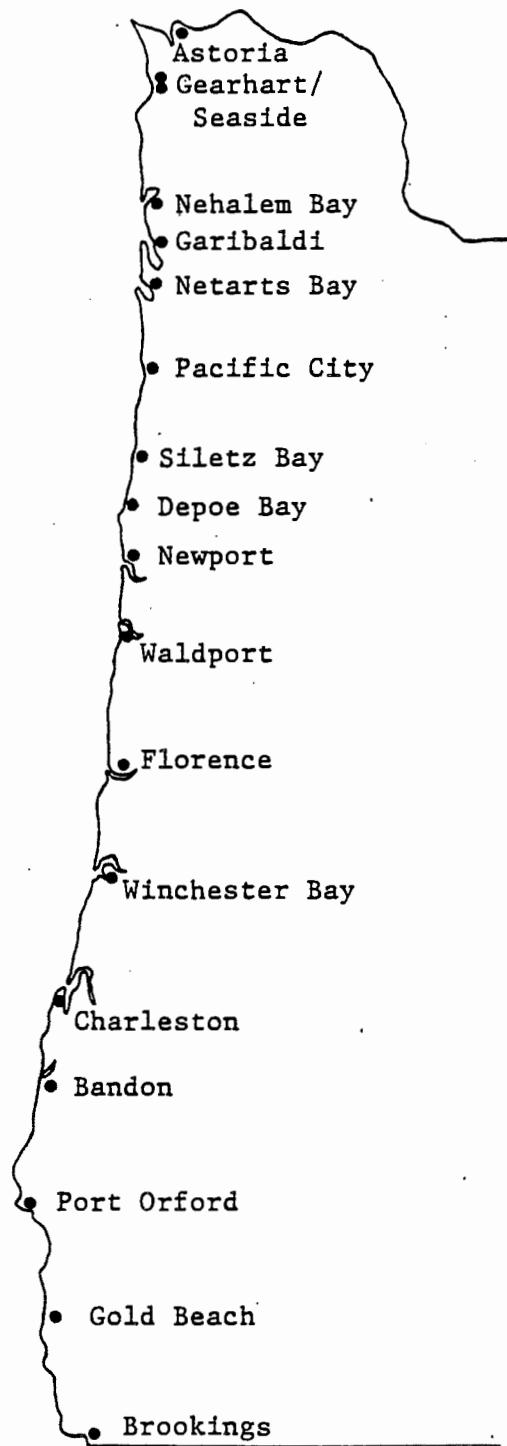


Figure 1. Oregon coastal ports

Even though some of the rockfish species are reported separately there is still contamination of other species in each of the listed rockfish species groups. Oregon Department of Fish and Wildlife biologists routinely sample these categories at the dock to determine species composition. This market sample data is applied to the fish ticket data to obtain estimates of annual landings by major species groups. This information is not included in this report but an annual summary table is available and can be obtained by contacting ODFW.

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:

Salmon, troll dressed.....	+	15%
Sablefish, dressed.....	+	60%
Halibut, dressed.....	+	15%
head-off.....	+	35%
Hake, filleted.....	+	235%
Scallops, shucked.....	+	1,220%

Landings by month reflect the date of purchase by a dealer. 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.

The trends portrayed in Table 3 (Annual Landings, 1979-88) are the result of many factors such as abundance of fish, market demand, technical advances, and regulations. 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 fishermen.

Salmon produced in private hatcheries are caught by commercial fishermen 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 recreational fisheries.

There is no commercial oyster fishery in Oregon. The data in Table 64 reports Oregon oyster production by private enterprises established in several Oregon estuaries.

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 1. Common and scientific names of species reported in the Oregon commercial catch.

Common Name	Scientific Name	Common name	Scientific Name
<b>FISHES</b>		<b>FISHES</b>	
Anchovey, northern.....	<i>Engraulis mordax</i>	Steelhead.....	<i>Oncorhynchus mykiss</i>
Bonito, Pacific.....	<i>Sarda chiliensis</i>	Sturgeon	
Cabezon.....	<i>Scorpaenichthys marmoratus</i>	Green.....	<i>Acipenser medirostris</i>
Carp.....	<i>Cyprinus carpio</i>	White.....	<i>Acipenser transmontanus</i>
Cod, Pacific.....	<i>Gadus macrocephalus</i>	Sunfish, ocean.....	<i>Mola mola</i>
Flounder		Surfperch.....	Members of the family <i>Embiotocidae</i>
Arrowtooth.....	<i>Atheresthes stomias</i>	Thornyhead, shortspine.....	<i>Sebastes alascanus</i>
Starry.....	<i>Platichthys stellatus</i>	Thornyhead, longspine.....	<i>Sebastes altivelis</i>
Greenling.....	<i>Hexagrammas</i> spp.	Tomcod, Pacific.....	<i>Microgadus proximus</i>
Grenadier.....	Members of the family <i>Macrouridae</i>	Tuna	
Hagfish.....	<i>Eptatretus</i> spp.	Albacore.....	<i>Thunnus alalunga</i>
Hake, Pacific (Whiting).....	<i>Merluccius productus</i>	Bluefin.....	<i>Thunnus thynnus</i>
Halibut, Pacific.....	<i>Hippoglossus stenolepis</i>	Skipjack.....	<i>Euthynnus pelamis</i>
Herring, Pacific.....	<i>Clupea harengus pallasii</i>	Yellowfin.....	<i>Thunnus albacares</i>
Irish Lord, red.....	<i>Hemilepidotus hemilepidotus</i>	Walleye.....	<i>Stizostedion vitreum vitreum</i>
Lamprey, Pacific.....	<i>Entosphenus tridentatus</i>	Wolf-eel.....	<i>Anarrhichthys ocellatus</i>
Lingcod.....	<i>Ophiodon elongatus</i>	Wrymouth, giant.....	<i>Delolepis gigantea</i>
Mackerel.....	Members of the family <i>Carangidae</i> and <i>Scombridae</i>		
Opah.....	<i>Lampris guttatus</i>	<b>CRUSTACEANS</b>	
Pollock, walleye.....	<i>Theragra chalcogramma</i>	Barnacle, gooseneck.....	<i>Mitella polymerus</i>
Prickleback, monkeyface.....	<i>Cebidichthys violaceus</i>	Crab	
Ratfish.....	<i>Hydrolagus colliei</i>	Box.....	<i>Lopholithodes foraminatus</i>
Rockfish		Dungeness.....	<i>Cancer magister</i>
Miscellaneous rockfish.....	<i>Sebastes</i> spp.	Hole.....	<i>Emerita analoga</i>
Pacific Ocean Perch.....	<i>Sebastes alutus</i>	Rock.....	<i>Cancer productus</i>
Widow.....	<i>Sebastes entomelas</i>	Tanner.....	<i>Chionoecetes</i> spp.
Yellowtail.....	<i>Sebastes flavidus</i>	Crayfish.....	<i>Pacifastacus</i> spp.
Sablefish.....	<i>Anoplopoma fimbria</i>	Shrimp	
Salmon		Brine.....	<i>Artemia salina</i>
Chinook.....	<i>Oncorhynchus tshawytscha</i>	Ghost (Sand).....	<i>Callinassa californensis</i>
Chum.....	<i>Oncorhynchus keta</i>	Mud.....	<i>Upogebia pugettensis</i>
Coho.....	<i>Oncorhynchus kisutch</i>	Pink.....	<i>Pandalus jordani</i>
Pink.....	<i>Oncorhynchus gorbuscha</i>		
Sockeye.....	<i>Oncorhynchus nerka</i>	<b>MOLLUSKS</b>	
Sanddab, Pacific.....	<i>Citharichthys sordidus</i>	Clam	
Sculpin, buffalo.....	<i>Enophrys bison</i>	Butter.....	<i>Saxidomus giganteus</i>
Shad, American.....	<i>Alosa sapidissima</i>	Cockle.....	<i>Clinocardium nuttallii</i>
Shark		Gaper.....	<i>Tresus capax</i>
Soupfin.....	<i>Galeorhinus zyopterus</i>	Littleneck.....	<i>Venerupis</i> spp.
Spiny dogfish.....	<i>Squalus acanthias</i>	Razor.....	<i>Siliqua patula</i>
Thresher.....	<i>Alopias vulpinus</i>	Softshell.....	<i>Mya arenaria</i>
Skates and Rays.....	Members of the family <i>Rajidae</i> , <i>Rhinobatidae</i> and <i>Myliobatidae</i>	Mussel, freshwater.....	Members of the family <i>Margaritiferidae</i> & <i>Unionidae</i>
Smelt.....	Members of the family <i>Osmeridae</i>	Mussel, ocean.....	<i>Mytilus</i> spp.
Sole		Octopus.....	<i>Polypus</i> spp.
Butter.....	<i>Isopsetta isolepis</i>	Oyster	
Curlfin.....	<i>Pleuronichthys decurrens</i>	Kumomoto.....	<i>Crassostrea gigas</i> var.
Dover.....	<i>Microstomus pacificus</i>	Native.....	<i>Ostrea lurida</i>
English.....	<i>Parophrys vetulus</i>	Pacific.....	<i>Crassostrea gigas</i>
Flathead.....	<i>Hippoglossoides elassodon</i>	Scallop, weathervane.....	<i>Patinoplectin caurinus</i>
Petrale.....	<i>Eopsetta jordani</i>	Squid.....	<i>Loligo opalescens</i>
Rex.....	<i>Glyptocephalus zachirus</i>		
Rock.....	<i>Lepidopsetta bilineata</i>	<b>OTHER INVERTEBRATES</b>	
Sand.....	<i>Psettichthys melanostictus</i>	Urchin, red sea.....	<i>Strongylocentrotus fanciscanus</i>
Slender.....	<i>Lyopsetta exilis</i>	Worms, tube.....	<i>Serpula</i> Spp.

Table 2. Type and number of commercial fishing licenses issued, 1979-88.

Type	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Albacore tuna landing.....	147	134	223	87	105	81	48	51	50	76
Bait fishing.....	66	72	112	91	96	97	106	122	111	127
Boat.....	4263	4928	4575	4231	3966	2078	2982	3072	3109	3529
Individual fishing.....	8258	8383	8008	7449	6853	3946	5619	6330	7025	7423
Single Delivery.....	55	224	196	109	85	113	165	406	678	136
Gillnet.....	815	571 <sup>1/</sup>	534 <sup>1/</sup>	511 <sup>1/</sup>	475 <sup>1/</sup>	436 <sup>1/</sup>	373 <sup>1/</sup>	370 <sup>1/</sup>	370 <sup>1/</sup>	356 <sup>1/</sup>
Scallop permit.....	--	--	196	164	144	134	113	101	103	104
Shrimp permit.....	--	373	295	268	234	209	180	173	181	220
Troll permit.....	--	4311	3926	3646	3439	3203	2993	2739	2626	2597
Bait dealers:										
Reporting.....	43	55	77	45	59	67	66	71	62	72
Non-reporting.....	2/	2/	2/	8	17	27	34	33	27	27
Buyer.....	93	84	121	119	124	78	94	122	150	179
Canner, fish.....	13	12	8	8	7	7	8	6	7	11
Canner, shellfish.....	2	3	3	3	4	3	2	2	3	4
Limited fish seller.....	--	--	--	--	--	--	2	31	37	57
Wholesale fish dealer:										
Reporting.....	187	243	229	217	221	180	181	168	168	171
Non-reporting.....	2/	2/	2/	12	18	13	14	21	33	30
Private hatchery.....	2/	2/	2/	7	8	8	9	7	6	6
Boat, lost license.....	16	2	--	40	28	11	18	23	30	31
Indiv. fishing, lost license..	66	21	10	55	38	11	14	18	26	67
Permit fisheries, lost permit.	--	NA	NA	NA	NA	NA	NA	NA	37	28
Special permit.....	235	129	99	115	103	107	92	73	74	87
TOTAL	14259	19545	18612	17185	16024	10809	13113	13639	14913	15338

1/ Gillnet permit

2/ Included with reporting

NA - Not Available

TABLE 3A. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) IN OREGON, 1979-1988.

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
FISH:										
Anchovy, northern.....	700	0	0	200	0	0	31	0	0	26
Bonita.....	0	0	0	0	1462	0	0	0	0	0
Cabezon.....	0	0	299	142	702	2512	5681	10963	14051	24987
Carp.....	0	6362	0	0	50	0	0	0	11184	0
Cod, Pacific.....	931704	356522	116947	260319	196644	175782	85401	67789	1468747	2280678
Flounder, arrowtooth..	745000	438774	1311268	1617209	1191733	919403	1539458	1107314	1631086	1414080
Flounder, starry.....	645989	426768	889441	481812	432560	236979	789941	215869	218867	345650
Greenling.....	0	0	0	0	0	0	0	0	0	177
Grenadier.....	0	0	0	0	798	0	0	0	462	46854
Hagfish.....	0	0	0	0	0	0	0	0	0	25782
Hake, Pac. (Whiting)..	304700	605298	360251	3316	142536	745561	1950069	926681	402713	543196
Halibut, Pacific.....	43448	176684	150396	234730	579560	1055044	812822	1313774	916022	582020
Herring, Pacific.....	175448	140723	148410	144970	145915	177452	163566	220300	493788	355690
Lamprey.....	8935	3233	4666	39169	4482	3391	6381	4740	5633	10896
Lingcod.....	1805165	1662778	2307361	3213736	3830684	2344785	2320901	1444321	1589771	2222190
Macreral.....	5231	20	26	83	18253	6724	13	4	3229	1403
Opah.....	0	0	0	0	448	0	0	89	1727	160
Pollock, walleye.....	0	0	0	0	348	880	310	1523	0	0
Prickleback, monkeyface	0	0	0	0	302	250	71	487	0	0
Ratfish.....	0	0	0	0	0	0	0	0	0	28
Pac. Oc. Perch.....	4193424 1/	3615284 1/	4350997 1/	5508130 1/	5192175 1/	1576824	1554767	1385049	1048384	1403168
Nominal POP.....	2/	2/	2/	2/	2/	1472712	2378182	2093582	2046590	2980699
Rockfish, widow.....	3/	3/	31768970	19198987	3/	11635817	9535857	9435395	13963484	12009023
Rockfish, yellowtail..	3/	3/	3/	3/	3/	3/	2985880	3667900	3700306	4960998
Rkfsh, Sebastolobus...	3/	3/	3/	3/	3/	1785270	2361759	1399250	1480307	2209850
Rockfish, other spp...	19194651	35173303	18321418	22031780	30291426	12231908	10033146	7912703	10037674	9838085
Sablefish.....	17024760	6025840	5166329	11220816	10234762	10666025	11624342	10261789	11551670	8999796
Salmon, chinook.....	4804950	3954327	2439675	4365148	1287328	1759165	3856605	6477211	11482797	11741177
Salmon, chum.....	338	1824	11118	13964	1100	10978	3560	8287	6821	14697

TABLE 3A. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) IN OREGON, 1979-1988. (CONT.)

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Salmon, coho.....	6160328	3255659	4156442	4204763	1300319	1183454	1822156	6936485	3058254	5697737
Salmon, pink.....	122324	1805	372605	0	269	0	297429	12	100463	12
Salmon, sockeye.....	10	0	0	472	2998	82495	143251	14311	124037	65036
Sanddab, Pacific.....	453383	356592	293589	526000	531290	614479	395496	321095	468094	241914
Irish Lord, Red.....	0	0	0	0	0	0	0	0	0	6
Sculpin, Buffalo.....	0	0	0	0	0	0	0	0	0	21
Shad, American.....	703166	291414	117477	435351	359719	198414	140143	343154	365482	393621
Shark, soupfin.....	3049	1791	3565	11081	13905	7784	9087	7161	17511	3029
Shark, spiny dogfish..	85446	56305	10608	2090	2581	873	290	363	225	1110
Shark, thresher.....	0	0	0	0	0	0	2092	935100	101664	88957
Shark, other.....	0	0	1293	8213	7100	696	1616	1333	3645	67
Skates and rays.....	408573	183673	85861	63889	159640	59495	11385	22767	21421	4571
Smelt.....	791228	328762	24013	55346	40343	30551	673322	36636	48725	58971
Sole, butter.....	44244	26713	22463	19178	12075	2252	707	1034	10617	691
Sole, curlfin (turbot)	2532	1016	5105	9793	9489	6908	4518	4752	9685	6328
Sole, Dover.....	11226910	9080509	11672995	17951407	18698513	13472731	12585063	10623952	13353184	16925202
Sole, English.....	2390661	1584178	1600095	2187335	2014645	993103	1031237	1221130	1310569	1281272
Sole, flathead.....	31165	7035	11111	6524	17105	11854	32132	5556	1311	20708
Sole, petrale.....	2330293	1890934	1948665	3323843	2435788	1517840	1273559	1568374	1884519	1989500
Sole, rex.....	1638048	1175957	1346409	1865611	1426686	1210425	874431	629946	632021	734799
Sole, rock.....	20301	28729	19871	66543	9278	4630	1424	12862	2498	11383
Sole, sand.....	769564	564653	735458	856930	696583	481734	485018	531913	500462	349569
Sole, slender.....	0	25	0	0	0	0	5	0	0	0
Sole, miscellaneous...	39777	0	0	0	0	0	0	0	0	0
Steelhead.....	41193	29772	61060	53564	80487	562348	454332	360654	319411	267345
Sturgeon, green.....	22243	23240	9990	21219	18970	54870	31431	87823	67553	58028
Sturgeon, white.....	312161	183927	280123	236691	296648	401621	306687	485588	428330	231041
Sunfish, ocean.....	0	0	0	0	244	70	0	0	0	50
Surfperch.....	2487	121	167	342	2421	4920	3314	4369	2539	5551
Tomcod, Pacific.....	0	0	0	0	46	0	0	0	0	69

TABLE 3A. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) IN OREGON, 1979-1988. (CONT.)

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Tuna, albacore.....	3106607	3504715	7726890	1913063	3410429	1630763	1524601	2461004	2288045	3967120
Tuna, other.....	5713979	1006	0	580	177	185	0	364	13	154
Wolf-eel.....	253	690	1435	2348	6747	5067	6947	7064	9276	4857
Wrymouth.....	0	0	0	0	0	0	0	0	254	560
Miscellaneous.....4/	97253	221060	335370	1219	3	271	223	1421	3947	227
CRUSTACEANS:										
Barnacle, Gooseneck...	0	0	0	0	0	0	0	0	0	30
Crab, box.....	0	0	0	502	16207	271881	93431	3060	24	0
Crab, Dungeness.....	15631877	18650635	6984025	7035245	5350560	5013455	7422901	4660672	5990869	9414002
Crab, mole.....	0	0	0	0	0	0	0	0	0	15
Crab, rock.....	2333	1788	7	0	0	1155	1552	1806	5321	7772
Crab, Tanner.....	0	0	0	65	1338	0	48	0	121	0
Crayfish.....	20663	78359	83904	155231	125519	104745	196241	217829	336279	299013
Shrimp, brine.....	278	3125	3935	7100	12402	16500	20100	22400	23100	26600
Shrimp, ghost.....	46546	57888	55499	68749	69905	115699	110134	75368	52470	70815
Shrimp, mud.....	0	0	0	0	0	0	4663	53232	42273	40277
Shrimp, pink.....	29586586	30152030	25923589	18461988	6547073	4843571	14855247	33883577	44589472	41846202
MOLLUSKS:										
Clams, bay.....	94912	0	0	0	0	0	0	0	0	0
Clams, butter.....	5/	40	2409	3669	4035	4842	1646	2862	3046	2492
Clams, cockle.....	5/	2244	4580	10517	2579	17919	29412	32697	20202	30068
Clams, gaper.....	5/	73459	62142	104290	95091	50573	20121	16519	6368	3656
Clams, littleneck.....	5/	4268	4892	13265	34444	46874	46266	27573	14140	6971
Clams, softshell.....	5/	456	684	248	36	366	1809	3558	2527	1596
Clams, razor.....	36228	20291	22516	26528	100	5803	58253	2906	29197	33910
Mussels, ocean.....	19068	60629	17866	18372	28267	36198	40168	37494	48903	50656
Mussels, bay.....	0	0	0	0	2485	3856	0	2378	0	0
Mussels, freshwater...	0	0	0	0	0	0	0	0	3407	2564
Octopus.....	24187	14013	14082	18597	16780	12970	7682	9540	18771	46903

TABLE 3A. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) IN OREGON, 1979-1988. (CONT.)

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Scallops, weathervane	3434	0	16853845	1487941	2648965	3329234	819030	105523	13590	29226
Squid.....	0	0	225	113138	297410	946725	1751773	26371	29	5
OTHER INVERTEBRATES:										
Sea urchins.....	0	0	0	0	0	0	0	55820	0	0
Sea urchins, red.....	0	0	0	0	0	0	0	0	202799	1970963
Worms, tube.....	0	0	0	0	0	1333	2069	0	0	1570
	131867733	124507246	148224452	129683351	100360962	84170994	99603185	113822428	138611976	148306322

1/ INCLUDES ROCKFISH SIMILAR IN APPEARANCE TO PACIFIC OCEAN PERCH.

4/ INCLUDES HINK FOOD, WALLEYE AND INCIDENTAL MARINE SPECIES.

2/ INCLUDED IN PACIFIC OCEAN PERCH.

5/ INCLUDED IN BAY CLAMS.

3/ INCLUDED IN ROCKFISH, OTHER SPP.



TABLE 3B. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF COMMERCIAL FISH AND SHELLFISH LANDINGS IN OREGON, 1979-1988.

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
FISH:										
Anchovy, northern.....	350	0	0	50	0	0	34	0	0	13
Bonita.....	0	0	0	0	504	0	0	0	0	0
Cabezon.....	43	15	76	30	183	802	1274	2271	3038	7110
Carp.....	0	1289	0	0	15	0	0	0	1118	0
Cod, Pacific.....	186806	71414	24857	62376	48830	45198	21740	18242	481583	625590
Flounder, arrowtooth..	87394	41341	119956	164932	120601	91980	154469	113258	238787	185739
Flounder, starry.....	133904	90919	198705	120726	117274	66428	224439	62831	74829	107107
Greenling.....	0	0	0	0	0	0	0	0	0	121
Grenadier.....	0	0	0	0	160	0	0	0	60	7331
Hagfish.....	0	0	0	0	0	0	0	0	0	9024
Hake, Pac. (Whiting)..	19252	42156	25139	68	39486	44065	163209	59623	33054	41183
Halibut, Pacific.....	95628	152569	160251	255599	630308	802395	799284	1869505	1017882	873846
Herring, Pacific.....	73906	84435	57211	118262	78077	44299	243176	94399	236438	234041
Lamprey.....	2681	970	2008	26661	582	856	2233	1659	5633	1634
Lingcod.....	428971	377296	512504	767717	953314	585556	604400	443023	602693	799550
Mackerel.....	786	10	2	21	7796	671	1	1	535	365
Opah.....	0	0	0	0	90	0	0	36	777	80
Pollock, walleye.....	0	0	0	0	35	221	62	61	0	0
Prickleback, monkeyface	0	0	0	0	50	45	13	104	0	0
Ratfish.....	0	0	0	0	0	0	0	0	0	3
Pac. Oc. Perch.....	838972 1/	641488 1/	696320 1/	1032197 1/	1110487 1/	365189	393053	384223	348283	409526
Nominal POP.....	2/	2/	2/	2/	2/	306783	553919	549627	628299	804019
Rockfish, widow.....	3/	3/	4062242	3059712	3/	2669442	2370142	2572719	4479950	3385946
Rockfish, yellowtail..	3/	3/	3/	3/	3/	3/	757761	1032689	1195564	1398018
Rkfish, Sebastolobus...	3/	3/	3/	3/	3/	423301	590471	395154	482735	780096
Rockfish, other spp...	3872098	5275650	2935590	4165621	6040081	2887349	2595437	2324962	3472619	2699417
Sablefish.....	6652072	1058227	1074003	2465880	2213240	2213122	3334997	3600071	5084185	4349831
Salmon, chinook.....	9044905	6720957	4829927	7608117	1883384	3055784	6739449	8264478	21496898	26842749
Salmon, chum.....	252	1251	6869	7250	581	5770	1278	3014	6412	10650

TABLE 3B. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF COMMERCIAL FISH AND SHELLFISH LANDINGS IN OREGON, 1979-1988. (CONT.)

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Salmon, coho.....	11752416	3774321	5909667	4739763	1091541	1384676	1794040	6708735	4911333	11710396
Salmon, pink.....	90679	1366	272840	0	174	0	168007	6	69432	10
Salmon, sockeye.....	7	0	0	702	2021	90866	154038	16447	186607	126280
Sanddab, Pacific.....	124948	99256	78901	156212	169939	200896	120456	110051	171223	79358
Irish Lord, Red.....	0	0	0	0	0	0	0	0	0	1
Sculpin, Buffalo.....	0	0	0	0	0	0	0	0	0	2
Shad, American.....	202053	61251	28035	155335	73453	44959	26161	66775	72841	93575
Shark, soupfin.....	924	769	1216	4224	6579	4505	4536	5129	12203	2751
Shark, spiny dogfish..	5878	3907	734	171	190	69	29	104	83	191
Shark, thresher.....	0	0	0	0	0	0	2092	585070	155758	135189
Shark, other.....	0	0	658	4815	3603	530	792	911	2887	39
States and rays.....	36917	15806	6747	15818	33112	10316	2694	5991	6714	1461
Smelt.....	68684	27345	2508	7694	10123	8710	97504	8930	12357	12286
Sole, butter.....	9426	5766	4240	4246	2685	470	172	216	2650	173
Sole, curlfin (turbot)	774	350	1962	2968	2889	1929	1480	1635	3220	2232
Sole, Dover.....	2416047	1830109	2568746	4190843	4227393	3193069	3159418	2826414	4183821	5216455
Sole, English.....	663376	433616	462755	700883	650712	319919	342424	439679	533197	500736
Sole, flathead.....	8128	1267	3094	2040	5459	3861	10588	1977	494	7946
Sole, petrale.....	1038031	874186	1027317	2060523	1697737	1092768	935803	1198068	1552777	1661977
Sole, rex.....	473051	350410	403710	600783	466922	401039	291065	225847	248298	285241
Sole, rock.....	6966	10585	6878	22246	2834	1435	389	4455	1061	3022
Sole, sand.....	295410	220556	340389	447093	414482	295969	305618	346481	366779	261004
Sole, slender.....	0	5	0	0	0	0	2	0	0	0
Sole, miscellaneous...	8378	0	0	0	0	0	0	0	0	0
Steelhead.....	57568	34558	74704	59320	62006	590768	212324	199113	351209	392736
Sturgeon, green.....	12069	10205	4222	7881	7478	25092	14946	44021	34320	32296
Sturgeon, white.....	359422	188454	291297	250871	335821	548390	447939	771369	714606	424259
Sunfish, ocean.....	0	0	0	0	49	14	0	0	0	5
Surfperch.....	279	121	93	80	1286	2311	1963	2177	1748	3105
Tomcod, Pacific.....	0	0	0	0	9	0	0	0	0	31

TABLE 3B. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF COMMERCIAL FISH AND SHELLFISH LANDINGS IN OREGON, 1979-1988. (CONT).

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Tuna, albacore.....	2113208	2745478	6678117	1265387	1881210	884510	814322	919763	1675345	3327289
Tuna, other.....	2542568	584	0	243	89	184	0	125	9	65
Wolf-eel.....	56	690	1435	563	1262	1696	1485	1765	2304	1025
Wrymouth.....	0	0	0	0	0	0	0	0	95	58
Miscellaneous.....4/	3064	0	134	1615	1	130	14	2665	13541	534
CRUSTACEANS:										
Barnacle, Gooseneck...	0	0	0	0	0	0	0	0	0	8
Crab, box.....	0	0	0	294	10628	153622	46588	1530	10	0
Crab, Dungeness.....	11626124	12373341	6712248	7550695	7934349	7758923	10740671	6588472	8351876	11276973
Crab, mole.....	0	0	0	0	0	0	0	0	0	70
Crab, rock.....	556	1788	7	0	0	1155	1552	1806	5321	7772
Crab, Tanner.....	0	0	0	39	1552	0	17	0	242	0
Crayfish.....	22555	68630	97858	166362	128710	108999	201763	225533	470458	415895
Shrimp, brine.....	84	3749	4330	8520	17115	24750	11250	22395	34650	39900
Shrimp, ghost.....	85217	95385	66677	71728	51175	107897	237379	151555	135904	90038
Shrimp, mud.....	0	0	0	0	0	0	12782	185811	64882	66198
Shrimp, pink.....	11339584	16683901	13042627	9288864	4656160	2148029	5241302	18104562	30272202	17149668
MOLLUSKS:										
Clams, bay.....	29811	0	0	0	0	0	0	0	0	0
Clams, butter.....	5/	37	663	1175	1642	1967	715	1368	1422	1549
Clams, cockle.....	5/	804	1137	2615	861	7686	11734	12839	5704	12075
Clams, gaper.....	5/	22041	21369	34852	29477	15804	5492	3487	1573	1176
Clams, littleneck.....	5/	3841	5193	14268	36620	48320	45219	28352	15716	8219
Clams, softshell.....	5/	311	403	166	36	185	705	2672	524	554
Clams, razor.....	41961	26630	34967	42807	189	10417	114939	6058	64172	86831
Mussels, ocean.....	9469	22289	15642	24911	17116	31168	30161	33377	26478	20075
Mussels, bay.....	0	0	0	0	55	3605	0	666	0	0
Mussels, freshwater...	0	0	0	0	0	0	0	0	954	744
Octopus.....	10171	6180	6254	8354	7065	5924	4151	5861	14199	31282

TABLE 3B. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF COMMERCIAL FISH AND SHELLFISH LANDINGS IN OREGON, 1979-1988. (CONT).

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Scallops, weathervane	593	0	4671448	427292	778781	1017784	327922	47588	6406	12017
Squid.....	0	0	45	9117	79901	199941	318577	2684	3	1
OTHER INVERTEBRATES:										
Sea urchins.....	0	0	0	0	0	0	0	14707	0	0
Sea urchins, red.....	0	0	0	0	0	0	0	0	51360	571083
Worms, tube.....	0	0	0	0	0	667	535	0	0	314
<b>TOTAL</b>	<b>66894472</b>	<b>54559875</b>	<b>57556927</b>	<b>52209637</b>	<b>38147769</b>	<b>34365180</b>	<b>45814646</b>	<b>61727192</b>	<b>94702340</b>	<b>97837159</b>

1/ INCLUDES ROCKFISH SIMILAR IN APPEARANCE TO PACIFIC OCEAN PERCH.  
 2/ INCLUDED IN PACIFIC OCEAN PERCH.  
 3/ INCLUDED IN ROCKFISH, OTHER SPP.

4/ INCLUDES MINK FOOD, WALLEYE AND INCIDENTAL MARINE SPECIES.  
 5/ INCLUDED IN BAY CLAMS.

TABLE 4. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY PORT IN OREGON, 1988.

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.....	0	0	26	0	0	0	0	0	0	0	0	0	0	0	26
Cabezon.....	0	0	496	626	15833	2718	0	0	251	0	5044	0	19	0	24987
Cod, Pacific.....	0	1437640	112904	0	0	580505	0	370	133585	0	0	0	15674	0	2280678
Flounder, arrowtooth..	0	984535	132372	0	0	152333	0	228	129388	0	49	0	15175	0	1414080
Flounder, starry.....	29526	283464	287	0	0	20252	0	300	10680	0	0	0	1141	0	345450
Greenling.....	0	0	0	0	0	53	0	0	0	0	124	0	0	0	177
Grenadier.....	0	0	0	0	0	0	2753	0	116	0	0	0	43985	0	46854
Hagfish.....	0	0	0	0	0	25782	0	0	0	0	0	0	0	0	25782
Hake, Pac. (Whiting)..	0	17143	66652	0	0	435892	1719	0	21790	0	0	0	0	0	543196
Halibut, Pacific.....	0	330395	22125	35	686	155982	85	27083	39995	185	5449	0	0	0	582020
Herring, Pacific.....	0	0	0	0	94	355796	0	0	0	0	0	0	0	0	355890
Lamprey.....	0	0	0	0	0	0	0	0	0	0	0	0	0	10896	10896
Lingcod.....	0	918120	277078	12780	21495	337606	406	2261	397147	82	63828	235	191078	74	2222190
Mackerel.....	0	0	320	25	19	947	0	0	92	0	0	0	0	0	1403
Opah.....	0	160	0	0	0	0	0	0	0	0	0	0	0	0	160
Ratfish.....	0	0	0	0	0	28	0	0	0	0	0	0	0	0	28
Pac. Oc. Perch.....	0	957647	25736	0	0	351647	0	0	68138	0	0	0	0	0	1403168
Nominal POP.....	0	252176	616461	0	0	1344717	0	86	627885	0	0	0	139374	0	2980699
Rockfish, widow.....	0	3558974	400680	71	0	6033157	100	269	1084879	0	167	0	930726	0	12009023
Rockfish, yellowtail..	0	3383491	245921	1	0	590176	0	0	654457	0	42	0	86910	0	4960998
Rkfish, Sebastolobus...	0	515072	50526	0	0	210824	0	2162	777096	0	0	0	654170	0	2209850
Rockfish, other spp...	115	4256852	498251	45712	54738	2687336	2389	13064	1805478	9681	110721	351	353280	117	9838085
Sablefish.....	0	2157109	199675	0	0	2934123	647993	455586	2018925	132471	79184	0	374730	0	8999796
Salmon, chinook.....	6695229	41848	288751	100637	33626	1381599	281708	344970	1701738	199373	337168	2715	327258	4557	11741177
Salmon, chum.....	13460	0	37	104	24	230	100	147	479	0	43	0	73	0	14697
Salmon, coho.....	1861429	13889	488484	385466	110871	1470932	250251	294873	642549	61934	88369	1772	14395	12523	5697737
Salmon, pink.....	0	0	2	0	0	7	0	0	3	0	0	0	0	0	12

TABLE 4. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY PORT IN OREGON, 1988. (CONT.)

SPECIES	CDLUMBIA		PACIFIC		DEPOE		WINCHESTER			PORT	GOLD		OTHER 2/	TOTAL	
	RIVER 1/	ASTORIA	GARIBALDI	CITY	BAY	NEWPORT	FLORENCE	BAY	CHARLESTON	BANDON	ORFORD	BEACH	BROOKINGS		LOCATIONS
Salmon, sockeye.....	65036	0	0	0	0	0	0	0	0	0	0	0	0	0	65036
Sanddab, Pacific.....	0	121868	1338	0	0	69352	53	0	46454	0	0	0	2849	0	241914
Irish Lord, Red.....	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6
Sculpin, Buffalo.....	0	0	0	0	0	21	0	0	0	0	0	0	0	0	21
Shad, American.....	345551	0	25	0	0	20	11199	36791	35	0	0	0	0	0	393621
Shark, soupfin.....	0	1438	51	0	25	433	0	0	933	0	0	0	149	0	3029
Shark, spiny dogfish..	0	972	0	0	0	115	0	0	23	0	0	0	0	0	1110
Shark, thresher.....	0	88772	0	0	0	0	0	0	0	0	0	0	185	0	88957
Shark, other.....	0	0	0	0	0	0	0	0	67	0	0	0	0	0	67
States and rays.....	0	1069	0	0	0	2729	0	0	760	0	13	0	0	0	4571
Smelt.....	58931	0	0	0	0	0	0	0	0	0	0	0	40	0	58971
Sole, butter.....	0	0	0	0	0	415	0	0	276	0	0	0	0	0	691
Sole, curlfin (turbot)	0	0	0	0	0	2359	0	0	2614	0	0	0	1355	0	6328
Sole, Dover.....	0	6166308	590978	0	0	1342380	265	7153	7817730	0	529	0	999859	0	16925202
Sole, English.....	0	541503	27000	0	40	322153	0	13	310319	0	0	0	80244	0	1281272
Sole, flathead.....	0	17608	3100	0	0	0	0	0	0	0	0	0	0	0	20708
Sole, petrale.....	0	816518	74577	0	62	366440	0	246	648728	0	1	0	82928	0	1989500
Sole, rex.....	0	460276	39946	0	0	86232	0	0	91578	0	0	0	56767	0	734799
Sole, rock.....	0	812	5270	0	0	5183	0	0	118	0	0	0	0	0	11383
Sole, sand.....	0	251325	663	0	0	40862	2	500	42743	0	0	0	13474	0	349569
Steelhead.....	267345	0	0	0	0	0	0	0	0	0	0	0	0	0	267345
Sturgeon, green.....	54129	2386	0	0	0	1395	0	0	100	0	0	0	18	0	58028
Sturgeon, white.....	227271	2450	0	0	0	0	0	70	1122	0	0	0	128	0	231041
Sunfish, ocean.....	0	0	0	0	0	50	0	0	0	0	0	0	0	0	50
Surfperch.....	0	0	0	0	0	1059	0	0	20	0	0	0	4472	0	5551
Tomcod, Pacific.....	0	0	0	0	0	0	0	0	0	0	0	0	69	0	69
Tuna, albacore.....	0	546894	21860	0	1873	2272554	30366	126523	947179	4567	0	15304	0	0	3967120
Tuna, other.....	0	154	0	0	0	0	0	0	0	0	0	0	0	0	154
Wolf-eel.....	0	956	105	48	955	941	24	0	1388	0	440	0	0	0	4857

TABLE 4. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY PORT IN OREGON, 1988. (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
Wrymouth.....	0	0	0	0	0	14	0	5	541	0	0	0	0	0	560
Miscellaneous.....	0	0	0	0	0	182	0	0	0	0	0	0	45	0	227
CRUSTACEANS:															
Barnacle, Gooseneck...	0	0	0	0	0	30	0	0	0	0	0	0	0	0	30
Crab, Dungeness, Bay...	0	0	124	0	0	381	8687	4644	15380	0	0	0	0	8382	37598
Crab, Dungeness, Oc...	0	2929185	420894	275	145677	2882240	382788	682732	748735	13467	143746	0	1026665	0	9376404
Crab, mole.....	0	0	0	0	0	0	0	0	2	0	4	9	0	0	15
Crab, rock.....	0	0	0	0	0	7772	0	0	0	0	0	0	0	0	7772
Crayfish.....	0	0	0	0	0	0	0	0	0	0	0	0	0	299013	299013
Shrimp, brine.....	0	0	0	0	0	0	0	0	0	0	0	0	0	26600	26600
Shrimp, ghost.....	0	0	8628	9066	0	422	0	292	6757	0	0	0	0	45650	70815
Shrimp, mud.....	0	0	17672	0	0	0	0	0	1931	0	0	0	0	20674	40277
Shrimp, pink.....	0	11447290	3540516	0	0	13400376	0	37979	10399461	0	139555	0	2881025	0	41846202
MOLLUSKS:															
Clams, butter.....	0	0	1001	0	0	0	0	0	1491	0	0	0	0	0	2492
Clams, cockle.....	0	0	26215	0	0	0	0	28	3825	0	0	0	0	0	30068
Clams, gaper.....	0	0	597	0	0	568	1010	0	1481	0	0	0	0	0	3656
Clams, littleneck.....	0	0	6724	0	0	0	0	0	247	0	0	0	0	0	6971
Clams, softshell.....	0	0	0	0	0	585	190	31	11	549	0	0	0	230	1596
Clams, razor.....	0	0	0	0	0	0	0	0	0	0	0	0	0	33910	33910
Mussels, ocean.....	0	0	4301	0	200	1013	1970	35308	969	0	1000	0	0	5895	50656
Mussels, freshwater...	0	0	0	0	0	0	0	0	0	0	0	0	0	2564	2564
Octopus.....	0	6767	455	0	196	6498	139	0	7266	0	13294	0	12288	0	46903
Scallops, weathervane	0	0	0	0	56	29170	0	0	0	0	0	0	0	0	29226
Squid.....	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
OTHER INVERTEBRATES:															

TABLE 4. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY PORT IN OREGON, 1988. (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
Sea urchins, red.....	0	0	0	0	9764	1176	0	0	178305	0	1502270	225816	53632	0	1970963
Worms, tube.....	0	0	0	0	0	0	0	0	1570	0	0	0	0	0	1570
TOTAL	9618022	42513066	8218829	554846	396234	39917768	1624197	2073714	31394830	422309	2491040	246202	8364180	471085	148306322

1/ OREGON LANDINGS ONLY.

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

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



TABLE 5. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH IN OREGON, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Anchovy, northern.....	0	0	0	0	0	0	0	26	0	0	0	0	26
Cabazon.....	1768	3466	2362	4395	2271	3804	3827	695	339	947	39	1074	24987
Cod, Pacific.....	63209	51626	51720	234786	195812	224026	351974	401980	273044	314046	5396	113059	2280678
Flounder, arrowtooth..	115829	92288	99329	152001	187609	154646	162803	171982	87031	88466	8139	93957	1414080
Flounder, starry.....	170	6058	3710	26594	51497	21726	111744	66308	27633	26229	263	3718	345650
Greenling.....	6	11	7	14	2	124	3	1	7	0	2	0	177
Grenadier.....	0	0	0	1375	5769	19919	7361	3275	3550	5365	0	240	46854
Hagfish.....	0	0	0	0	0	0	0	0	0	10282	15500	0	25782
Hake, Pac. (Whiting)..	0	0	0	100688	22321	56138	93299	26079	46073	122962	0	75636	543196
Halibut, Pacific.....	0	0	0	0	0	0	250953	47924	156299	126844	0	0	582020
Herring, Pacific.....	94	291223	640	63900	0	0	20	12	1	0	0	0	355890
Lamprey.....	0	0	0	0	0	1981	8847	68	0	0	0	0	10896
Lingcod.....	192288	172338	132611	127353	168151	191331	252640	225005	256596	335686	21136	147055	2222190
Mackerel.....	0	0	0	0	0	0	1158	224	7	14	0	0	1403
Opah.....	0	0	0	0	0	0	0	0	160	0	0	0	160
Ratfish.....	0	2	5	0	0	13	3	5	0	0	0	0	28
Pac. Oc. Perch.....	70930	112172	134018	110877	124837	141886	158035	133401	85277	164883	18156	148696	1403168
Nominal POP.....	293636	302604	209014	292427	361756	289701	156675	251965	206124	236783	30589	349425	2980699
Rockfish, widow.....	1900002	1733212	1937978	1685428	942852	655382	524702	1438755	873469	109344	13705	194194	12009023
Rockfish, yellowtail..	283628	250014	413032	423570	374106	384700	625171	681770	453156	624911	86077	360863	4960998
Rkfish, Sebastolobus...	164256	364103	264172	138223	160203	154525	192984	121780	135652	182683	48297	282972	2209850
Rockfish, other spp...	521436	700889	724168	798209	846605	1331069	1040268	1155359	835893	925831	163949	794409	9838085
Sablefish.....	369786	619990	669956	905720	1024524	1682638	1803054	1124643	203460	256804	48943	290278	8999796
Salmon, chinook.....	0	157524	85531	0	620600	1093039	1096705	2917477	5102712	621676	45913	0	11741177
Salmon, chum.....	0	0	0	0	483	518	155	50	23	6414	7054	0	14697
Salmon, coho.....	0	0	0	0	0	9326	2245707	1627434	1117198	662547	35525	0	5697737
Salmon, pink.....	0	0	0	0	0	3	9	0	0	0	0	0	12
Salmon, sockeye.....	0	0	0	0	0	46186	18416	393	41	0	0	0	65036
Sanddab, Pacific.....	33083	32716	36363	46197	11645	5346	8786	7438	18612	23867	476	17385	241914

TABLE 5. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH IN OREGON, 1988. (CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Irish Lord, Red.....	5	0	0	1	0	0	0	0	0	0	0	0	6
Sculpin, Buffalo.....	2	11	6	0	0	0	0	0	2	0	0	0	21
Shad, American.....	0	0	0	35	123906	256405	12706	451	0	118	0	0	393621
Shark, soupfin.....	633	163	57	4	68	490	357	381	318	495	0	63	3029
Shark, spiny dogfish..	942	63	10	0	0	0	10	3	0	30	0	52	1110
Shark, thresher.....	0	0	0	64	185	0	0	48357	20195	20156	0	0	88957
Shark, other.....	0	57	0	0	0	0	0	10	0	0	0	0	67
Skates and rays.....	30	407	401	928	410	0	281	157	438	365	30	1124	4571
Smelt.....	2931	5798	0	50242	0	0	0	0	0	0	0	0	58971
Sole, butter.....	0	415	0	0	0	276	0	0	0	0	0	0	691
Sole, curlfin (turbot)	452	1912	491	776	829	1291	272	166	139	0	0	0	6328
Sole, Dover.....	1450987	2715794	2229715	1518454	940380	817582	950935	1205742	1153757	1417284	386189	2138383	16925202
Sole, English.....	106890	69755	94136	102380	64236	87927	115985	173749	156237	235338	14602	60037	1281272
Sole, flathead.....	1592	680	0	0	0	60	98	651	1396	16231	0	0	20708
Sole, petrale.....	490502	300050	111160	82804	73691	82230	81256	84319	98825	122921	54887	406855	1989500
Sole, rex.....	44597	79190	48371	70789	61809	67575	56230	72479	74232	111349	3737	44441	734799
Sole, rock.....	42	169	51	124	256	5087	5654	0	0	0	0	0	11383
Sole, sand.....	319	9178	5609	31722	23793	41952	88206	86813	38655	18745	1407	3170	349569
Steelhead.....	0	3504	3639	0	0	9800	16408	75897	157299	798	0	0	267345
Sturgeon, green.....	64	470	119	198	701	1234	431	43290	10869	530	84	38	58028
Sturgeon, white.....	165	43595	28616	3992	485	1966	1735	74776	52297	16961	6453	0	231041
Sunfish, ocean.....	0	0	0	0	0	0	0	50	0	0	0	0	50
Surfperch.....	10	206	1227	3084	4	56	918	1	41	3	1	0	5551
Tomcod, Pacific.....	0	69	0	0	0	0	0	0	0	0	0	0	69
Tuna, albacore.....	0	0	0	0	0	0	4860	3095627	760052	106581	0	0	3967120
Tuna, other.....	0	0	0	0	0	0	0	154	0	0	0	0	154
Wolf-eel.....	15	100	209	1262	1902	534	520	114	86	112	3	0	4857
Wrymouth.....	0	0	0	70	149	125	31	46	104	35	0	0	560
Miscellaneous.....	0	163	61	0	0	0	0	1	0	0	0	2	227

TABLE 5. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH IN OREGON, 1988. (CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
CRUSTACEANS:													
Barnacle, Gooseneck...	0	0	0	0	0	0	0	0	0	30	0	0	30
Crab, Dungeness, Bay...	6	4	0	0	0	0	0	0	10590	16158	9179	1661	37598
Crab, Dungeness, Oc...	1774556	980718	561056	470924	450224	143986	137713	70008	0	0	0	4787219	9376404
Crab, mole.....	0	0	0	1	6	0	8	0	0	0	0	0	15
Crab, rock.....	334	936	1401	1422	1383	134	525	387	505	106	378	261	7772
Crayfish.....	0	0	0	11198	21600	49846	85758	53698	48507	28406	0	0	299013
Shrimp, brine.....	0	0	0	0	2100	8600	13800	2100	0	0	0	0	26600
Shrimp, ghost.....	2932	2989	5017	4417	7053	9542	7409	6978	7914	9828	3794	2942	70815
Shrimp, mud.....	8885	8830	3316	1644	891	754	815	536	1014	1909	3970	7713	40277
Shrimp, pink.....	0	0	0	3292142	5064434	8152245	5990108	7342583	6070001	5934689	0	0	41846202
MOLLUSKS:													
Clams, butter.....	139	315	541	798	343	150	135	32	14	0	0	25	2492
Clams, cockle.....	0	3413	390	11898	5651	0	0	4732	300	600	0	3084	30068
Clams, gaper.....	0	0	0	0	0	0	898	820	399	836	0	703	3656
Clams, littleneck....	0	20	127	236	444	905	1947	1747	370	887	191	97	6971
Clams, softshell.....	5	199	431	225	15	485	96	136	4	0	0	0	1596
Clams, razor.....	229	1203	3499	4141	7848	7420	706	0	1564	3071	723	3506	33910
Mussels, ocean.....	3465	3134	6248	4670	3495	4828	7646	3655	2225	6135	1635	3520	50656
Mussels, freshwater...	0	0	0	0	0	0	0	0	2564	0	0	0	2564
Octopus.....	7881	6777	3592	4729	2710	2373	2511	3961	3425	1767	163	7014	46903
Scallops, weathervane	56	0	0	0	0	0	0	0	0	0	0	29170	29226
Squid.....	0	0	0	0	0	0	0	0	0	5	0	0	5
OTHER INVERTEBRATES:													
Sea urchins, red.....	19969	67809	36243	55709	134925	222141	280773	355730	462112	108327	35355	191870	1970963
Worms, tube.....	0	0	310	50	805	210	195	0	0	0	0	0	1570
TOTAL	7928756	9198332	7910665	10842890	12097774	16446236	16983235	23214386	19018807	13027390	1071940	10565911	148306322

TABLE 6. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH FROM THE COLUMBIA RIVER, 1988. 1/

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<u>BELOW BONNEVILLE DAM</u>													
FISH:													
Flounder, starry.....	0	3737	2830	0	0	10	0	10064	10474	2340	71	0	29526
Rockfish, other spp...	0	0	0	0	0	0	0	0	115	0	0	0	115
Salmon, chinook.....	0	157515	84565	0	0	301	0	1149893	3756983	144199	16096	0	5309552
Salmon, chum.....	0	0	0	0	0	0	0	0	23	6383	7054	0	13460
Salmon, coho.....	0	0	0	0	0	0	0	45462	1105050	662547	35525	0	1848584
Salmon, sockeye.....	0	0	0	0	0	31872	0	0	0	0	0	0	31872
Shad, American.....	0	0	0	0	105154	220574	0	0	0	93	0	0	325821
Smelt.....	2891	5798	0	50242	0	0	0	0	0	0	0	0	58931
Sturgeon, green.....	0	48	83	0	0	889	0	42177	10551	297	84	0	54129
Sturgeon, white.....	0	36237	10733	0	0	274	0	34896	49114	16961	6453	0	154668
<b>TOTAL</b>	<b>2891</b>	<b>203335</b>	<b>98211</b>	<b>50242</b>	<b>105154</b>	<b>253920</b>	<b>0</b>	<b>1282492</b>	<b>4932310</b>	<b>832820</b>	<b>65283</b>	<b>0</b>	<b>7826658</b>
<u>ABOVE BONNEVILLE DAM</u>													
FISH:													
Salmon, chinook.....	0	9	966	0	0	1271	3443	337276	1040711	2001	0	0	1385677
Salmon, coho.....	0	0	0	0	0	0	0	697	12148	0	0	0	12845
Salmon, sockeye.....	0	0	0	0	0	14314	18416	393	41	0	0	0	33164
Shad, American.....	0	0	0	0	0	8853	10426	451	0	0	0	0	19730
Steelhead.....	0	3504	3639	0	0	9800	16408	75897	157299	798	0	0	267345
Sturgeon, white.....	165	7358	17883	3950	0	1104	1639	38442	2062	0	0	0	72603
<b>TOTAL</b>	<b>165</b>	<b>10871</b>	<b>22488</b>	<b>3950</b>	<b>0</b>	<b>35342</b>	<b>50332</b>	<b>453156</b>	<b>1212261</b>	<b>2799</b>	<b>0</b>	<b>0</b>	<b>1791364</b>
<b>TOTAL</b>	<b>3056</b>	<b>214206</b>	<b>120699</b>	<b>54192</b>	<b>105154</b>	<b>289262</b>	<b>50332</b>	<b>1735648</b>	<b>6144571</b>	<b>835619</b>	<b>65283</b>	<b>0</b>	<b>9618022</b>

1/ OREGON LANDINGS ONLY.

TABLE 7. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT ASTORIA, 1988. 1 / 2 /

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cod, Pacific.....	26626	22302	41339	185689	146912	137654	210873	310220	158119	104020	4056	89830	1437640
Flounder, arrowtooth..	80369	32861	55866	106256	128788	115189	131640	130033	47310	68085	8023	80115	984535
Flounder, starry.....	0	956	685	24510	45344	15245	109385	52103	12113	23123	0	0	283464
Hake, Pac. (Whiting)...	0	0	0	0	0	1185	0	11508	4450	0	0	0	17143
Halibut, Pacific.....	0	0	0	0	0	0	20921	47739	134891	126844	0	0	330395
Lingcod.....	21059	44834	8810	24783	78613	88515	147598	113502	138285	198313	3962	49846	918120
Opah.....	0	0	0	0	0	0	0	0	160	0	0	0	160
Pac. Oc. Perch.....	56629	57765	78776	52096	87404	113693	125484	89173	50405	131500	10072	104650	957647
Nominal POP.....	3318	4070	30832	38641	4884	50731	26026	29844	10251	43724	0	9855	252176
Rockfish, widow.....	720458	526901	436896	473381	282543	107178	166501	506939	276247	42072	1886	17972	3558974
Rockfish, yellowtail..	167906	184024	180553	345584	271461	328649	534513	567435	352086	308091	37057	106132	3383491
Rkfsh, Sebastolobus...	29494	65864	57506	37568	46559	52558	38117	24245	5782	46736	11796	98847	515072
Rockfish, other spp...	204623	261481	183044	342672	438821	648261	608189	494767	303390	382176	40031	349397	4256852
Sablefish.....	123897	203510	132633	198614	237072	346835	431301	203725	81376	85907	10274	101965	2157109
Salmon, chinook.....	0	0	0	0	19271	8716	8902	1848	2372	739	0	0	41848
Salmon, coho.....	0	0	0	0	0	0	9075	4814	0	0	0	0	13889
Sanddab, Pacific.....	4810	8911	21212	27890	6253	2626	7658	6759	12658	20907	384	1800	121868
Shark, soupfin.....	23	66	0	0	0	388	217	338	90	286	0	30	1438
Shark, spiny dogfish..	942	0	0	0	0	0	0	0	0	30	0	0	972
Shark, thresher.....	0	0	0	64	0	0	0	48357	20195	20156	0	0	88772
Skates and rays.....	0	0	0	762	0	0	277	0	0	0	30	0	1069
Sole, Dover.....	363496	556196	790805	640973	476490	384665	389251	426050	425920	509879	120213	1082370	6166308
Sole, English.....	28796	18539	13557	40693	34624	52679	73429	75604	61174	123916	777	17715	541503
Sole, flathead.....	0	680	0	0	0	60	98	651	0	16119	0	0	17608
Sole, petrale.....	168930	120543	37319	47376	59748	53077	35051	33591	35860	55576	11032	158415	816518
Sole, rex.....	9245	29836	20289	41931	42116	55117	40212	49798	58388	90618	1543	21183	460276
Sole, rock.....	0	0	0	0	0	812	0	0	0	0	0	0	812
Sole, sand.....	95	293	4306	29186	11075	18380	84606	61009	27156	15219	0	0	251325
Sturgeon, green.....	0	0	0	198	192	48	431	1083	318	116	0	0	2386

TABLE 7. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT ASTORIA, 1988. 1/ 2/ (CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Sturgeon, white.....	0	0	0	20	0	0	26	1438	966	0	0	0	2450
Tuna, albacore.....	0	0	0	0	0	0	0	341672	177721	27501	0	0	546894
Tuna, other.....	0	0	0	0	0	0	0	154	0	0	0	0	154
Wolf-eel.....	0	16	40	152	299	46	338	35	20	10	0	0	956
CRUSTACEANS:													
Crab, Dungeness, Oc...	661042	371600	285979	277999	283023	61307	29516	8895	0	0	0	949824	2929185
Shrimp, pink.....	0	0	0	746297	1176853	2536121	2266454	2130253	1116244	1475068	0	0	11447290
MOLLUSKS:													
Octopus.....	165	74	422	1239	1358	689	1031	806	430	361	38	154	6767
TOTAL	2671923	2511322	2380869	3684574	3879703	5180424	5497120	5774388	3514377	3917092	261174	3240100	42513066

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

2/ INCLUDES LANDINGS AT WARRENTON AND HAZHOND.

TABLE 7A. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT SEASIDE/GEARHART, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
MOLLUSKS:													
Clams, razor.....	229	1203	3499	4141	7848	7420	706	0	1564	3071	723	3506	33910
TOTAL	229	1203	3499	4141	7848	7420	706	0	1564	3071	723	3506	33910

TABLE 7B. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT CANNON BEACH, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Salmon, chinook.....	0	0	0	0	238	0	901	545	113	0	0	0	1797
Salmon, coho.....	0	0	0	0	0	0	4191	1617	0	0	0	0	5808
TOTAL	0	0	0	0	238	0	5092	2162	113	0	0	0	7605

TABLE 8. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT NEHALEM BAY, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
CRUSTACEANS:													
Shrimp, ghost.....	0	0	629	439	1260	1640	899	180	718	461	290	73	6589
TOTAL	0	0	629	439	1260	1640	899	180	718	461	290	73	6589

TABLE 9. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT GARIBALDI, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<b>FISH:</b>													
Anchovy, northern.....	0	0	0	0	0	0	0	26	0	0	0	0	26
Cabezon.....	0	0	0	0	49	361	86	0	0	0	0	0	496
Cod, Pacific.....	16519	3953	1237	4136	16606	12117	11864	16770	12322	9552	4	7824	112904
Flounder, arrowtooth..	14878	25779	2959	26311	9364	4047	12993	19564	6675	3232	25	6545	132372
Flounder, starry.....	0	0	138	0	0	11	0	22	0	116	0	0	287
Hake, Pac. (Whiting)..	0	0	0	49771	0	0	16647	34	0	0	0	0	66652
Halibut, Pacific.....	0	0	0	0	0	0	717	0	21408	0	0	0	22125
Lingcod.....	93790	42354	41619	2375	10652	9583	11181	13531	11447	7882	3	32661	277078
Mackerel.....	0	0	0	0	0	0	252	68	0	0	0	0	320
Pac. Oc. Perch.....	516	5029	3620	2096	0	698	10550	368	508	962	0	1389	25736
Nominal POP.....	74778	43843	25879	54259	44286	77124	55648	87028	59794	35168	115	58539	616461
Rockfish, widow.....	2960	98639	96748	20960	16190	24214	33851	5304	98823	327	0	2664	400680
Rockfish, yellowtail..	0	9337	122566	15447	20246	14602	21841	3144	23437	5357	32	9912	245921
Rkfsh, Sebastolobus...	7224	7913	3747	7316	3928	1514	5201	6191	3654	1082	0	2856	50526
Rockfish, other spp...	57006	45102	86620	54884	40184	53170	26386	53219	49091	10241	4	22344	498251
Sablefish.....	16735	21796	4333	34309	17257	14652	39206	22413	14546	9795	0	4633	199675
Salmon, chinook.....	0	0	0	0	8101	56284	52458	70370	44926	56612	0	0	288751
Salmon, chum.....	0	0	0	0	0	0	0	20	0	17	0	0	37
Salmon, coho.....	0	0	0	0	0	0	316065	172419	0	0	0	0	488484
Salmon, pink.....	0	0	0	0	0	0	2	0	0	0	0	0	2
Sanddab, Pacific.....	0	0	0	0	0	0	0	0	1151	187	0	0	1338
Shad, American.....	0	0	0	0	0	0	0	0	0	25	0	0	25
Shark, soupfin.....	0	0	0	0	0	0	51	0	0	0	0	0	51
Sole, Dover.....	29481	34153	24572	132003	47666	28194	86578	82877	40790	42994	8	41662	590978
Sole, English.....	1321	838	641	1415	2220	2289	4649	4145	4090	4373	16	1003	27000
Sole, flathead.....	1592	0	0	0	0	0	0	0	1396	112	0	0	3100
Sole, petrale.....	24687	6216	4961	2664	2007	4711	4629	8523	6018	4887	8	5266	74577
Sole, rex.....	3907	7263	2262	3484	3222	5311	4692	2953	1622	3303	18	1909	39946
Sole, rock.....	0	0	0	0	0	0	5270	0	0	0	0	0	5270



TABLE 9. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT GARIBALDI, 1988.

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Sole, sand.....	0	0	0	0	0	67	0	82	0	514	0	0	663
Tuna, albacore.....	0	0	0	0	0	0	0	21092	768	0	0	0	21860
Wolf-eel.....	0	0	0	0	0	53	52	0	0	0	0	0	105
CRUSTACEANS:													
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	46	0	78	0	124
Crab, Dungeness, Oc...	69362	67745	48528	29343	42173	20963	14933	3611	0	0	0	124236	420894
Shrimp, ghost.....	193	266	419	511	1169	1232	1281	1473	945	747	219	173	8628
Shrimp, mud.....	3862	3453	1184	755	498	498	608	512	310	980	1883	3129	17672
Shrimp, pink.....	0	0	0	163948	772645	822369	282959	522393	538088	438114	0	0	3540516
MOLLUSKS:													
Clams, butter.....	0	75	104	400	180	150	60	32	0	0	0	0	1001
Clams, cockle.....	0	550	120	11888	4941	0	0	4732	300	600	0	3084	26215
Clams, gaper.....	0	0	0	0	0	0	0	47	0	0	0	550	597
Clams, littleneck.....	0	20	127	236	444	905	1929	1590	308	877	191	97	6724
Mussels, ocean.....	600	911	1040	880	870	0	0	0	0	0	0	0	4301
Octopus.....	37	0	0	32	47	0	24	112	138	65	0	0	455
Squid.....	0	0	0	0	0	0	0	0	0	5	0	0	5
OTHER INVERTEBRATES:													
TOTAL	419448	425235	473424	619623	1064845	1155119	1022663	1124665	942601	638126	2604	330476	8218829

TABLE 10. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT NETARTS BAY, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<b>FISH:</b>													
Lingcod.....	0	0	0	0	0	0	66	8	0	0	0	0	74
Rockfish, other spp...	0	0	0	0	0	0	80	37	0	0	0	0	117
Salmon, chinook.....	0	0	0	0	0	0	315	586	543	1316	0	0	2760
Salmon, coho.....	0	0	0	0	0	0	4748	1967	0	0	0	0	6715
<b>CRUSTACEANS:</b>													
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	0	109	0	0	109
Shrimp, ghost.....	0	0	0	0	0	0	0	0	0	0	0	90	90
Shrimp, mud.....	5023	3643	1581	800	386	226	0	0	704	914	1950	3552	18779
<b>MOLLUSKS:</b>													
Mussels, ocean.....	0	0	0	0	0	900	1200	0	550	1000	0	600	4250
<b>TOTAL</b>	<b>5023</b>	<b>3643</b>	<b>1581</b>	<b>800</b>	<b>386</b>	<b>1126</b>	<b>6409</b>	<b>2598</b>	<b>1797</b>	<b>3339</b>	<b>1950</b>	<b>4242</b>	<b>32894</b>

TABLE 11. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT PACIFIC CITY, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<b>FISH:</b>													
Cabezon.....	0	114	128	75	82	29	29	94	75	0	0	0	626
Halibut, Pacific.....	0	0	0	0	0	0	35	0	0	0	0	0	35
Lingcod.....	0	1342	1901	1895	1950	1766	1099	1641	557	629	0	0	12780
Mackerel.....	0	0	0	0	0	0	25	0	0	0	0	0	25
Rockfish, widow.....	0	0	0	71	0	0	0	0	0	0	0	0	71
Rockfish, yellowtail..	0	0	0	0	0	0	0	1	0	0	0	0	1
Rockfish, other spp...	0	311	359	5036	13574	12119	4283	6740	2889	401	0	0	45712
Salmon, chinook.....	0	0	0	0	308	3781	24604	27660	28102	16182	0	0	100637
Salmon, chum.....	0	0	0	0	0	0	74	30	0	0	0	0	104
Salmon, coho.....	0	0	0	0	0	0	273318	112148	0	0	0	0	385466
Wolf-eel.....	0	0	0	0	0	48	0	0	0	0	0	0	48
<b>CRUSTACEANS:</b>													
Crab, Dungeness, Oc...	0	0	104	0	0	97	49	25	0	0	0	0	275
Shrimp, ghost.....	1155	925	1160	247	310	1128	437	1119	1450	690	196	249	9066
<b>TOTAL</b>	<b>1155</b>	<b>2692</b>	<b>3652</b>	<b>7324</b>	<b>16224</b>	<b>18968</b>	<b>303953</b>	<b>149458</b>	<b>33073</b>	<b>17902</b>	<b>196</b>	<b>249</b>	<b>554846</b>

TABLE 12. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT SILETZ BAY, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<b>CRUSTACEANS:</b>													
Shrimp, ghost.....	24	23	29	32	29	26	53	48	81	85	18	20	468
<b>TOTAL</b>	<b>24</b>	<b>23</b>	<b>29</b>	<b>32</b>	<b>29</b>	<b>26</b>	<b>53</b>	<b>48</b>	<b>81</b>	<b>85</b>	<b>18</b>	<b>20</b>	<b>468</b>

TABLE 13. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT DEPOE BAY, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<b>FISH:</b>													
Cabezon.....	1278	1667	1547	3735	1215	2609	1961	362	67	862	0	530	15833
Halibut, Pacific.....	0	0	0	0	0	0	666	0	0	0	0	0	686
Herring, Pacific.....	94	0	0	0	0	0	0	0	0	0	0	0	94
Lingcod.....	3144	4604	1775	3795	1506	1025	2035	543	265	2289	0	514	21495
Mackerel.....	0	0	0	0	0	0	19	0	0	0	0	0	19
Rockfish, other spp....	696	3396	2025	6726	9829	6795	7695	7713	4982	4338	0	543	54738
Salmon, chinook.....	0	0	0	0	4059	2578	10391	11062	3148	2388	0	0	33626
Salmon, chum.....	0	0	0	0	0	0	24	0	0	0	0	0	24
Salmon, coho.....	0	0	0	0	0	0	57533	53338	0	0	0	0	110871
Shark, soupfin.....	25	0	0	0	0	0	0	0	0	0	0	0	25
Sole, English.....	40	0	0	0	0	0	0	0	0	0	0	0	40
Sole, petrale.....	62	0	0	0	0	0	0	0	0	0	0	0	62
Tuna, albacore.....	0	0	0	0	0	0	0	0	1873	0	0	0	1873
Wolf-eel.....	0	7	42	488	328	0	0	0	0	90	0	0	955
<b>CRUSTACEANS:</b>													
Crab, Dungeness, Oc...	26931	29447	18208	9640	548	542	30	70	0	0	0	60261	145677
<b>MOLLUSKS:</b>													
Mussels, ocean.....	0	0	0	0	0	200	0	0	0	0	0	0	200
Octopus.....	66	0	0	0	45	0	0	0	0	0	0	85	196
Scallops, weathervane	56	0	0	0	0	0	0	0	0	0	0	0	56
<b>OTHER INVERTEBRATES:</b>													
Sea urchins, red.....	0	0	1048	5376	3340	0	0	0	0	0	0	0	9764
<b>TOTAL</b>	<b>32392</b>	<b>39121</b>	<b>24645</b>	<b>29760</b>	<b>20870</b>	<b>13749</b>	<b>80374</b>	<b>73088</b>	<b>10335</b>	<b>9967</b>	<b>0</b>	<b>61933</b>	<b>396234</b>

TABLE 14. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT NEWPORT, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	180	260	21	85	56	200	1545	233	93	7	21	17	2718
Cod, Pacific.....	2663	15562	3913	37486	24312	58117	113638	53320	83603	182203	24	5664	590505
Flounder, arrowtooth..	13971	23309	31144	10588	25824	12673	4675	10539	10927	7319	0	1364	152333
Flounder, starry.....	49	1047	10	613	2808	5188	1730	1793	2787	525	192	3510	20252
Greenling.....	6	11	7	14	2	0	3	1	7	0	2	0	53
Hagfish.....	0	0	0	0	0	0	0	0	0	10282	15500	0	25782
Hake, Pac. (Whiting)..	0	0	0	37851	22321	54862	76643	7509	38108	122962	0	75636	435892
Halibut, Pacific.....	0	0	0	0	0	0	155982	0	0	0	0	0	155982
Herring, Pacific.....	0	291223	640	63900	0	0	20	12	1	0	0	0	355796
Lingcod.....	10412	9247	30174	35709	39338	46941	49839	29459	24575	35092	4618	22202	337606
Mackeral.....	0	0	0	0	0	0	815	115	3	14	0	0	947
Ratfish.....	0	2	5	0	0	13	3	5	0	0	0	0	28
Pac. Oc. Perch.....	12867	38103	37061	52163	36253	24456	12081	43860	31864	21960	7955	33024	351647
Nominal POP.....	101198	192154	85232	146979	272967	89643	15308	74530	73904	44017	22228	226557	1344717
Rockfish, widow.....	1018455	779107	1096620	959593	513231	336603	191166	557950	398564	33131	8819	139918	6033157
Rockfish, yellowtail..	59683	32849	66049	57084	81143	37077	43555	62851	25167	67312	6449	50957	590176
Rkfish, Sebastolobus...	9074	45057	27350	22159	8820	12569	7825	8644	8439	17718	3260	39909	210824
Rockfish, other spp...	118532	232293	211832	271837	215175	414448	203285	324240	202224	254029	53537	185904	2687336
Sablefish.....	29975	124133	252591	353084	402453	446172	738687	450732	36589	41247	3558	54902	2934123
Salmon, chinook.....	0	0	0	0	85109	226657	462401	378874	85975	142583	0	0	1381599
Salmon, chum.....	0	0	0	0	97	99	34	0	0	0	0	0	230
Salmon, coho.....	0	0	0	0	0	0	804210	666722	0	0	0	0	1470932
Salmon, pink.....	0	0	0	0	0	0	7	0	0	0	0	0	7
Sanddab, Pacific.....	9992	9386	12190	15222	2178	0	0	560	3259	2773	92	13700	69352
Irish Lord, Red.....	5	0	0	1	0	0	0	0	0	0	0	0	6
Sculpin, Buffalo.....	2	11	6	0	0	0	0	0	2	0	0	0	21
Shad, American.....	0	0	0	0	20	0	0	0	0	0	0	0	20
Shark, soupfin.....	25	97	0	4	42	60	89	43	0	73	0	0	433
Shark, spiny dogfish..	0	40	10	0	0	0	10	3	0	0	0	52	115

TABLE 14. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT NEWPORT, 1988.

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Skates and rays.....	0	329	401	166	0	0	4	0	340	365	0	1124	2729
Sole, butter.....	0	415	0	0	0	0	0	0	0	0	0	0	415
Sole, curlfin (turbot)	171	477	32	82	42	1283	272	0	0	0	0	0	2359
Sole, Dover.....	94827	229594	75400	51706	133624	107453	58417	158828	64950	108882	23397	235302	1342380
Sole, English.....	11363	15077	32876	28792	12745	24556	20341	55256	48226	54960	1398	16563	322153
Sole, petrale.....	59209	58072	22921	22155	9354	22390	35606	32444	43730	36123	2401	22035	366440
Sole, rex.....	11041	15029	10072	4778	4418	2578	1564	12732	6337	5871	738	9074	86232
Sole, rock.....	42	169	26	105	256	4275	310	0	0	0	0	0	5183
Sole, sand.....	224	1619	3	124	7707	21549	2261	1015	1224	1834	1407	1895	40862
Sturgeon, green.....	0	404	0	0	509	297	0	30	0	117	0	38	1395
Sunfish, ocean.....	0	0	0	0	0	0	0	50	0	0	0	0	50
Surfperch.....	10	8	1	16	4	56	918	1	41	3	1	0	1059
Tuna, albacore.....	0	0	0	0	0	0	4860	1752058	463072	52564	0	0	2272554
Wolf-eel.....	4	40	50	62	219	363	101	26	66	7	3	0	941
Wrymouth.....	0	0	0	0	0	0	0	14	0	0	0	0	14
Miscellaneous.....	0	118	61	0	0	0	0	1	0	0	0	2	182
CRUSTACEANS:													
Barnacle, Gooseneck...	0	0	0	0	0	0	0	0	0	30	0	0	30
Crab, Dungeness, Bay..	6	4	0	0	0	0	0	0	99	244	28	0	381
Crab, Dungeness, Oc...	508301	175239	89044	56780	58990	29044	28160	12408	0	0	0	1924274	2882240
Crab, rock.....	334	936	1401	1422	1383	134	525	387	505	106	378	261	7772
Shrimp, ghost.....	0	211	190	21	0	0	0	0	0	0	0	0	422
Shrimp, pink.....	0	0	0	1051043	1855232	2342748	1692249	2123455	2405536	1930113	0	0	13400376
MOLLUSKS:													
Clams, gaper.....	0	0	0	0	0	0	220	348	0	0	0	0	568
Clams, softshell.....	0	0	0	100	0	485	0	0	0	0	0	0	585
Mussels, ocean.....	0	103	260	0	0	0	0	450	0	200	0	0	1013
Octopus.....	356	722	454	572	369	721	368	726	639	602	0	969	6498
Scallops, weathervane	0	0	0	0	0	0	0	0	0	0	0	29170	29170

TABLE 14. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT NEWPORT, 1988.

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
OTHER INVERTEBRATES:													
Sea urchins, red.....	0	0	0	0	20	0	0	0	1156	0	0	0	1176
TOTAL	2072977	2292457	2088047	3282296	3817021	4323710	4729727	6822224	4064012	3175268	156006	3094023	39917768

TABLE 15. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT WALDPORT, 1988.

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	3848	3824	588	13	8273
Shrimp, ghost.....	1548	1347	1960	2748	3552	4146	3336	3426	4151	7302	2859	2128	38503
Shrimp, mud.....	0	273	104	84	5	30	207	24	0	15	121	1032	1895
MOLLUSKS:													
Clams, softshell.....	5	55	85	70	15	0	0	0	0	0	0	0	230
Mussels, ocean.....	0	70	765	300	0	0	0	510	0	0	0	0	1645
TOTAL	1553	1745	2914	3202	3572	4176	3543	3960	7999	11141	3568	3173	50546

TABLE 16. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT FLORENCE, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<b>FISH:</b>													
Grenadier.....	0	0	0	650	204	1104	795	0	0	0	0	0	2753
Hake, Pac. (Whiting)...	0	0	0	0	0	0	0	1719	0	0	0	0	1719
Halibut, Pacific.....	0	0	0	0	0	0	85	0	0	0	0	0	85
Lingcod.....	0	0	0	0	51	180	56	109	10	0	0	0	406
Rockfish, widow.....	0	0	0	0	0	0	0	0	100	0	0	0	100
Rockfish, other spp....	0	0	0	0	92	292	778	871	335	21	0	0	2389
Sablefish.....	0	0	1063	21679	61495	288283	168664	106809	0	0	0	0	647993
Salmon, chinook.....	0	0	0	0	37148	70034	80335	88001	3543	2647	0	0	281708
Salmon, chum.....	0	0	0	0	0	95	5	0	0	0	0	0	100
Salmon, coho.....	0	0	0	0	0	23	149814	100414	0	0	0	0	250251
Sanddab, Pacific.....	0	0	0	0	0	53	0	0	0	0	0	0	53
Shad, American.....	0	0	0	0	1915	8818	466	0	0	0	0	0	11199
Sole, Dover.....	0	0	0	0	250	15	0	0	0	0	0	0	265
Sole, sand.....	0	0	0	0	2	0	0	0	0	0	0	0	2
Tuna, albacore.....	0	0	0	0	0	0	0	24514	5852	0	0	0	30366
Wolf-eel.....	0	0	0	0	24	0	0	0	0	0	0	0	24
<b>CRUSTACEANS:</b>													
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	2319	4361	2007	0	8687
Crab, Dungeness, Oc...	62578	54505	18218	16920	9053	7158	4687	5420	0	0	0	204249	382788
<b>MOLLUSKS:</b>													
Clams, gaper.....	0	0	0	0	0	0	0	250	310	450	0	0	1010
Clams, softshell.....	0	0	0	0	0	0	65	125	0	0	0	0	190
Mussels, ocean.....	0	0	0	805	775	240	0	150	0	0	0	0	1970
Octopus.....	0	0	0	51	70	0	0	18	0	0	0	0	139
<b>TOTAL</b>	<b>62578</b>	<b>54505</b>	<b>19281</b>	<b>40105</b>	<b>111079</b>	<b>376295</b>	<b>405750</b>	<b>328400</b>	<b>12469</b>	<b>7479</b>	<b>2007</b>	<b>204249</b>	<b>1624197</b>



TABLE 17. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT WINCHESTER BAY, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cod, Pacific.....	0	0	0	0	301	0	0	0	0	0	0	69	370
Flounder, arrowtooth..	0	0	0	0	0	0	228	0	0	0	0	0	228
Flounder, starry.....	0	0	0	0	0	0	300	0	0	0	0	0	300
Halibut, Pacific.....	0	0	0	0	0	0	27083	0	0	0	0	0	27083
Lingcod.....	0	0	0	0	107	124	1083	144	249	354	0	200	2261
Nominal POP.....	0	0	0	0	86	0	0	0	0	0	0	0	86
Rockfish, widow.....	0	0	0	0	0	0	269	0	0	0	0	0	269
Rkfsh, Sebastolobus...	0	0	0	0	292	0	578	1292	0	0	0	0	2162
Rockfish, other spp...	0	0	0	163	1246	434	9248	1417	347	141	0	68	13064
Sablefish.....	0	0	0	12739	6500	131351	153931	151065	0	0	0	0	455586
Salmon, chinook.....	0	0	0	0	50261	94729	84179	110976	2559	2249	17	0	344970
Salmon, chum.....	0	0	0	0	80	67	0	0	0	0	0	0	147
Salmon, coho.....	0	0	0	0	0	41	214078	80754	0	0	0	0	294873
Shad, American.....	0	0	0	0	16817	18160	1814	0	0	0	0	0	36791
Sole, Dover.....	0	0	0	79	5210	0	1864	0	0	0	0	0	7153
Sole, English.....	0	0	0	0	13	0	0	0	0	0	0	0	13
Sole, petrale.....	0	0	0	0	50	0	196	0	0	0	0	0	246
Sole, sand.....	0	0	0	0	0	0	500	0	0	0	0	0	500
Sturgeon, white.....	0	0	0	0	0	0	70	0	0	0	0	0	70
Tuna, albacore.....	0	0	0	0	0	0	0	92202	34321	0	0	0	126523
Wrymouth.....	0	0	0	0	5	0	0	0	0	0	0	0	5
CRUSTACEANS:													
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	2939	1477	228	0	4644
Crab, Dungeness, Oc...	110820	75294	35200	24262	21131	8844	44592	29414	0	0	0	333175	682732
Shrimp, ghost.....	0	0	7	0	0	90	155	40	0	0	0	0	292
Shrimp, pint.....	0	0	0	5423	12706	7914	0	0	0	11936	0	0	37979
MOLLUSKS:													
Clams, cockle.....	0	28	0	0	0	0	0	0	0	0	0	0	28

TABLE 17. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT WINCHESTER BAY, 1988.

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Clams, softshell.....	0	0	0	0	0	0	31	0	0	0	0	0	31
Mussels, ocean.....	2865	1800	3493	1980	1850	3488	6266	2545	1675	4791	1635	2920	35308
TOTAL	113685	77122	38700	44646	116655	265242	546465	469849	42090	20948	1880	336432	2073714

TABLE 18. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT CHARLESTON, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	0	25	42	128	0	0	6	0	0	0	0	50	251
Cod, Pacific.....	12057	5736	5091	6780	7263	15488	14494	20966	18675	16611	902	9522	133585
Flounder, arrowtooth..	6347	9909	9125	8774	21053	21772	11103	8800	20131	7510	91	4773	129388
Flounder, starry.....	121	96	19	1425	3345	1272	329	2264	1748	61	0	0	10680
Grenadier.....	0	0	0	0	0	0	116	0	0	0	0	0	116
Hake, Pac. (Whiting)..	0	0	0	12866	0	91	9	5309	3515	0	0	0	21790
Halibut, Pacific.....	0	0	0	0	0	0	39995	0	0	0	0	0	39995
Lingcod.....	9194	45752	34444	39450	28927	21516	25940	38809	59538	56827	7921	28829	397147
Mackerel.....	0	0	0	0	0	0	47	41	4	0	0	0	92
Pac. Oc. Perch.....	918	11275	14561	4522	1180	3039	9920	0	2500	10461	129	9633	68138
Nominal POP.....	84144	56558	66353	40906	32753	61763	50938	39583	50825	89474	5824	48764	627885
Rockfish, widow.....	144675	261550	254318	4693	1008	27837	40520	244521	52840	19277	0	33640	1084879
Rockfish, yellowtail..	55997	21304	42814	3265	1256	4372	22392	48339	45076	175841	39939	193862	654457
Rkfsh, Sebastolobus...	106402	173192	138085	57538	28299	25449	44433	26263	35337	56212	15061	70825	777096
Rockfish, other spp...	93739	133003	223133	83872	106403	149170	134872	194988	187571	212865	65721	220141	1805478
Sablefish.....	173312	233893	238904	246561	236693	317212	185680	108111	52750	88522	27181	110106	2018925
Salmon, chinook.....	0	0	0	0	241122	313220	316466	530064	127575	173198	93	0	1701738
Salmon, chum.....	0	0	0	0	263	184	18	0	0	14	0	0	479
Salmon, coho.....	0	0	0	0	0	498	389089	252962	0	0	0	0	642549
Salmon, pink.....	0	0	0	0	0	3	0	0	0	0	0	0	3
Sanddab, Pacific.....	18189	12632	2570	2885	3214	2657	993	0	1429	0	0	1885	46454
Shad, American.....	0	0	0	35	0	0	0	0	0	0	0	0	35
Shark, soupfin.....	537	0	57	0	0	0	0	0	228	111	0	0	933
Shark, spiny dogfish..	0	23	0	0	0	0	0	0	0	0	0	0	23
Shark, other.....	0	57	0	0	0	0	0	10	0	0	0	0	67
Skates and rays.....	30	65	0	0	410	0	0	157	98	0	0	0	760
Sole, butter.....	0	0	0	0	0	276	0	0	0	0	0	0	276
Sole, curlfin (turbot)	281	110	459	694	787	8	0	166	109	0	0	0	2614
Sole, Dover.....	921689	1758835	1253645	624693	206301	245228	318009	420332	532650	622317	217503	696528	7817730

TABLE 18. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT CHARLESTON, 1988.

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Sole, English.....	63619	21397	44563	26693	13954	7973	16861	27592	26517	30379	9806	20965	310319
Sole, petrale.....	224023	91612	44910	9769	2496	1922	5422	7955	10048	16650	39426	194495	648728
Sole, rex.....	13468	20931	12973	13946	4908	3009	8057	2241	850	2882	264	8049	91578
Sole, rock.....	0	0	25	19	0	0	74	0	0	0	0	0	118
Sole, sand.....	0	321	241	1597	5009	1956	839	22567	9245	968	0	0	42743
Sturgeon, green.....	64	0	36	0	0	0	0	0	0	0	0	0	100
Sturgeon, white.....	0	0	0	22	357	588	0	0	155	0	0	0	1122
Surfperch.....	0	20	0	0	0	0	0	0	0	0	0	0	20
Tuna, albacore.....	0	0	0	0	0	0	0	862789	71878	12512	0	0	947179
Wolf-eel.....	0	6	39	438	823	0	29	53	0	0	0	0	1388
Wrymouth.....	0	0	0	70	144	125	31	32	104	35	0	0	541
CRUSTACEANS:													
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	1339	6143	6250	1648	15380
Crab, Dungeness, Oc...	141687	77830	25529	23566	16895	11935	14973	9539	0	0	0	426781	748735
Crab, mole.....	0	0	0	0	2	0	0	0	0	0	0	0	2
Shrimp, ghost.....	12	217	623	419	733	1280	1248	692	569	543	212	209	6757
Shrimp, mud.....	0	1461	447	5	2	0	0	0	0	0	16	0	1931
Shrimp, pink.....	0	0	0	989757	1029539	1780705	1389622	1921498	1635106	1653234	0	0	10399461
MOLLUSKS:													
Clams, butter.....	139	240	437	398	163	0	75	0	14	0	0	25	1491
Clams, cockle.....	0	2835	270	10	710	0	0	0	0	0	0	0	3825
Clams, gaper.....	0	0	0	0	0	0	678	175	89	386	0	153	1481
Clams, littleneck.....	0	0	0	0	0	0	18	157	62	10	0	0	247
Clams, softshell.....	0	0	0	0	0	0	0	11	0	0	0	0	11
Mussels, ocean.....	0	250	395	0	0	0	180	0	0	144	0	0	969
Octopus.....	440	843	338	289	286	561	721	1750	1719	187	0	132	7266
OTHER INVERTEBRATES:													
Sea urchins, red.....	0	108	0	2896	46285	86801	26172	0	10225	5818	0	0	178305
TOTAL	2071084	2942086	2414756	2209031	2043388	3108120	3070564	4798736	2960519	3259192	436339	2081015	31394830

TABLE 19. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT BANDON, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<b>FISH:</b>													
Halibut, Pacific.....	0	0	0	0	0	0	0	185	0	0	0	0	185
Lingcod.....	0	0	0	0	41	20	21	0	0	0	0	0	82
Rockfish, other spp...	0	0	0	0	1228	2331	1050	3952	167	953	0	0	9681
Sablefish.....	0	0	0	0	15947	64295	12161	40068	0	0	0	0	132471
Salmon, chinook.....	0	0	0	0	38850	45100	15587	82321	2605	14910	0	0	199373
Salmon, coho.....	0	0	0	0	0	170	12263	49501	0	0	0	0	61934
Tuna, albacore.....	0	0	0	0	0	0	0	0	4567	0	0	0	4567
<b>CRUSTACEANS:</b>													
Crab, Dungeness, Oc...	0	351	7936	0	154	300	142	142	0	0	0	4442	13467
<b>MOLLUSKS:</b>													
Clams, softshell.....	0	144	346	55	0	0	0	0	4	0	0	0	549
<b>TOTAL</b>	<b>0</b>	<b>495</b>	<b>8282</b>	<b>55</b>	<b>56220</b>	<b>112216</b>	<b>41224</b>	<b>176169</b>	<b>7343</b>	<b>15863</b>	<b>0</b>	<b>4442</b>	<b>422309</b>

TABLE 20. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT PORT ORFORD, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<b>FISH:</b>													
Cabezon.....	310	1400	624	353	869	605	200	6	104	78	18	477	5044
Flounder, arrowtooth..	2	0	12	0	0	15	4	16	0	0	0	0	49
Greenling.....	0	0	0	0	0	124	0	0	0	0	0	0	124
Halibut, Pacific.....	0	0	0	0	0	0	5449	0	0	0	0	0	5449
Lingcod.....	5500	14394	13104	8556	1843	4508	2053	3297	3516	5484	97	1476	63828
Rockfish, widow.....	0	0	0	0	0	0	0	0	0	167	0	0	167
Rockfish, yellowtail..	42	0	0	0	0	0	0	0	0	0	0	0	42
Rockfish, other spp...	4625	16995	9517	13959	10348	15219	9753	13468	6555	7279	1306	1697	110721
Sablefish.....	1807	2426	4632	2233	4023	23858	19811	20394	0	0	0	0	79184
Salmon, chinook.....	0	0	0	0	52997	61848	15747	113715	1628	61526	29707	0	337168
Salmon, chum.....	0	0	0	0	43	0	0	0	0	0	0	0	43
Salmon, coho.....	0	0	0	0	0	715	8311	79343	0	0	0	0	88369
Skates and rays.....	0	13	0	0	0	0	0	0	0	0	0	0	13
Sole, Dover.....	0	0	0	0	0	529	0	0	0	0	0	0	529
Sole, petrale.....	0	0	0	0	1	0	0	0	0	0	0	0	1
Wolf-eel.....	11	31	38	122	209	24	0	0	0	5	0	0	440
<b>CRUSTACEANS:</b>													
Crab, Dungeness, Oc...	41955	51533	11764	5560	2292	619	389	235	0	0	0	29399	143746
Crab, mole.....	0	0	0	0	4	0	0	0	0	0	0	0	4
Shrimp, pink.....	0	0	0	0	0	33486	38036	51661	16372	0	0	0	139555
<b>MOLLUSKS:</b>													
Mussels, ocean.....	0	0	295	705	0	0	0	0	0	0	0	0	1000
Octopus.....	4318	3545	2109	2253	287	42	23	30	0	0	0	687	13294
<b>OTHER INVERTEBRATES:</b>													
Sea urchins, red.....	17611	54246	31006	47437	85280	135340	190268	268019	358761	87077	35355	191870	1502270
<b>TOTAL</b>	<b>76181</b>	<b>144583</b>	<b>73101</b>	<b>81178</b>	<b>158196</b>	<b>276932</b>	<b>290044</b>	<b>550184</b>	<b>386936</b>	<b>161616</b>	<b>66483</b>	<b>225606</b>	<b>2491040</b>

TABLE 21. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT GOLD BEACH, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<b>FISH:</b>													
Lingcod.....	0	0	0	0	0	49	0	0	186	0	0	0	235
Rockfish, other spp...	0	0	0	0	0	25	0	36	290	0	0	0	351
Salmon, chinook.....	0	0	0	0	0	0	1087	921	586	121	0	0	2715
Salmon, coho.....	0	0	0	0	0	0	564	1208	0	0	0	0	1772
Tuna, albacore.....	0	0	0	0	0	0	0	1300	0	14004	0	0	15304
<b>CRUSTACEANS:</b>													
Crab, mole.....	0	0	0	1	0	0	8	0	0	0	0	0	9
<b>OTHER INVERTEBRATES:</b>													
Sea urchins, red.....	0	0	0	0	0	0	64333	86523	74960	0	0	0	225816
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>74</b>	<b>65992</b>	<b>89988</b>	<b>76022</b>	<b>14125</b>	<b>0</b>	<b>0</b>	<b>246202</b>

TABLE 22. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT BROOKINGS, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<b>FISH:</b>													
Cabezon.....	0	0	0	19	0	0	0	0	0	0	0	0	19
Cod, Pacific.....	5344	4073	140	695	418	650	1105	704	325	1660	410	150	15674
Flounder, arrowtooth..	262	430	223	72	2580	950	2160	3030	1988	2320	0	1160	15175
Flounder, starry.....	0	222	28	46	0	0	0	62	511	64	0	208	1141
Grenadier.....	0	0	0	725	5565	18815	6450	3275	3550	5365	0	240	43985
Lingcod.....	49189	9811	784	10790	5123	17104	11669	23962	17968	28816	4535	11327	191078
Nominal POP.....	30198	5979	718	11642	6780	10440	8755	20980	11350	24400	2422	5710	139374
Rockfish, widow.....	13454	67015	53396	226730	129880	159550	92395	124041	46895	14370	3000	0	930726
Rockfish, yellowtail..	0	2500	1050	2190	0	0	2870	0	7390	68310	2600	0	86910
Rkfish, Sebastolobus...	12062	72077	37484	13642	72405	62435	96830	55145	82440	60935	18180	70535	654170
Rockfish, other spp...	42215	8308	7638	19060	9705	28805	34649	53911	77937	53387	3350	14315	353280
Sablefish.....	24060	34232	35800	36501	43084	49980	53613	21326	18199	31333	7930	18672	374730
Salmon, chinook.....	0	0	0	0	83136	208520	19889	13365	1343	1005	0	0	327258
Salmon, chum.....	0	0	0	0	0	73	0	0	0	0	0	0	73
Salmon, coho.....	0	0	0	0	0	7879	2448	4068	0	0	0	0	14395
Sanddab, Pacific.....	92	1787	391	200	0	10	135	119	115	0	0	0	2849
Shark, soupfin.....	23	0	0	0	26	42	0	0	0	25	0	33	149
Shark, thresher.....	0	0	0	0	165	0	0	0	0	0	0	0	165
Smelt.....	40	0	0	0	0	0	0	0	0	0	0	0	40
Sole, curlfin (turbot)	0	1325	0	0	0	0	0	0	30	0	0	0	1355
Sole, Dover.....	41494	137016	85293	69000	70839	51498	96816	117655	89447	133212	25068	82521	999859
Sole, English.....	1751	13904	2499	4787	680	430	705	11152	16230	21710	2605	3791	80244
Sole, petrale.....	13591	23607	1049	840	35	130	352	1806	3169	9685	2020	26444	82928
Sole, rex.....	6936	6131	2775	6650	7145	1560	1705	4755	5035	8675	1174	4226	56767
Sole, sand.....	0	6945	1059	815	0	0	0	2140	1030	210	0	1275	13474
Sturgeon, green.....	0	18	0	0	0	0	0	0	0	0	0	0	18
Sturgeon, white.....	0	0	0	0	128	0	0	0	0	0	0	0	128
Surfperch.....	0	178	1226	3068	0	0	0	0	0	0	0	0	4472
Tomcod, Pacific.....	0	69	0	0	0	0	0	0	0	0	0	0	69



TABLE 22. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT BROOKINGS, 1988.

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Miscellaneous.....	0	45	0	0	0	0	0	0	0	0	0	0	45
<b>CRUSTACEANS:</b>													
Crab, Dungeness, Oc...	151880	77174	20546	26854	15965	3177	242	249	0	0	0	730578	1026665
Shrimp, pink.....	0	0	0	335674	217459	628902	320788	593323	358655	426224	0	0	2881025
<b>MOLLUSKS:</b>													
Octopus.....	2499	1593	269	293	248	360	344	519	499	552	125	4987	12288
<b>OTHER INVERTEBRATES:</b>													
Sea urchins, red.....	2358	13455	4189	0	0	0	0	1188	17010	15432	0	0	53632
<b>TOTAL</b>	<b>397448</b>	<b>487894</b>	<b>256557</b>	<b>770293</b>	<b>671386</b>	<b>1251310</b>	<b>753920</b>	<b>1056775</b>	<b>761116</b>	<b>907690</b>	<b>73419</b>	<b>976372</b>	<b>8364180</b>

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1988.

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	SHELT TRAWL
FISH:										
Anchovy, northern.....	0	0	0	0	0	0	0	0	0	0
Cabezon.....	126	0	0	0	0	0	0	0	0	0
Cod, Pacific.....	48	0	0	0	0	0	0	0	0	0
Flounder, arrowtooth..	3	0	0	0	0	0	0	0	0	0
Flounder, starry.....	17	0	0	0	29526	0	0	0	0	0
Greenling.....	25	0	0	0	0	0	0	0	0	0
Grenadier.....	0	0	0	0	0	0	0	0	0	0
Hagfish.....	0	0	0	0	0	0	0	0	0	0
Hake, Pac. (Whiting)..	1762	0	0	0	0	0	0	0	0	0
Halibut, Pacific.....	2834	0	0	0	0	0	0	0	0	0
Herring, Pacific.....	0	0	0	0	0	0	0	0	0	0
Lamprey.....	0	0	0	0	0	0	0	0	0	0
Lingcod.....	38297	0	0	0	0	0	0	0	0	0
Mackerel.....	1275	0	0	0	0	0	0	0	0	0
Opah.....	0	0	0	0	0	0	0	0	0	0
Ratfish.....	5	0	0	0	0	0	0	0	0	0
Pac. Oc. 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.....	173	0	0	0	0	0	0	0	0	0
Rockfish, yellowtail..	366	0	0	0	0	0	0	0	0	0
Rkfsh, Sebastolobus...	0	0	0	0	0	0	0	0	0	0
Rockfish, other spp...	160516	0	0	0	115	0	0	0	0	0
Sablefish.....	82	0	0	0	0	0	0	0	0	0
Salmon, chinook.....	5045832	0	116	0	5309552	1376827	0	8850	0	0
Salmon, chum.....	1237	0	0	0	13460	0	0	0	0	0
Salmon, coho.....	3836308	0	0	0	1648584	9859	0	2986	0	0
Salmon, pink.....	12	0	0	0	0	0	0	0	0	0
Salmon, sockeye.....	0	0	0	0	31972	32670	0	494	0	0

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1988. (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	SHELT TRAWL
Sanddab, Pacific.....	59	0	0	0	0	0	0	0	0	0
Irish Lord, Red.....	0	0	0	0	0	0	0	0	0	0
Sculpin, Buffalo.....	0	0	0	0	0	0	0	0	0	0
Shad, American.....	0	0	36791	11199	325821	19676	0	54	0	0
Shark, soupfin.....	137	0	0	0	0	0	0	0	0	0
Shark, spiny dogfish..	3	0	0	0	0	0	0	0	0	0
Shark, thresher.....	185	0	0	0	0	0	0	0	0	0
Shark, other.....	0	0	0	0	0	0	0	0	0	0
Skates and rays.....	0	0	0	0	0	0	0	0	0	0
Smelt.....	0	0	0	0	1710	0	0	57221	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.....	0	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.....	15	0	0	0	0	0	0	0	0	0
Sole, rex.....	0	0	0	0	0	0	0	0	0	0
Sole, rock.....	0	0	0	0	0	0	0	0	0	0
Sole, sand.....	2	0	0	0	0	0	0	0	0	0
Steelhead.....	0	0	0	0	0	229096	0	38249	0	0
Sturgeon, green.....	0	0	0	0	54129	0	0	0	0	0
Sturgeon, white.....	0	0	0	0	154668	66105	6498	0	0	0
Sunfish, ocean.....	50	0	0	0	0	0	0	0	0	0
Surfperch.....	0	0	0	0	0	0	0	0	0	0
Tomcod, Pacific.....	0	0	0	0	0	0	0	0	0	0
Tuna, albacore.....	3806199	151937	0	0	0	0	0	0	0	0
Tuna, other.....	154	0	0	0	0	0	0	0	0	0
Wolf-eel.....	10	0	0	0	0	0	0	0	0	0
Wrymouth.....	0	0	0	0	0	0	0	0	0	0

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1988. (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
Miscellaneous.....	0	0	0	0	0	0	0	0	0	0
CRUSTACEANS:										
Barnacle, Gooseneck...	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, Oc...	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
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
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, softshell.....	0	0	0	0	0	0	0	0	0	0
Clams, razor.....	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
Octopus.....	69	0	0	0	0	0	0	0	0	0
Scallops, weathervane	0	0	0	0	0	0	0	0	0	0
Squid.....	0	0	0	0	0	0	0	0	0	0
OTHER INVERTEBRATES:										
Sea urchins, red.....	0	0	0	0	0	0	0	0	0	0
Worms, tube.....	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>12895801</b>	<b>151937</b>	<b>36907</b>	<b>11199</b>	<b>7769437</b>	<b>1734233</b>	<b>6498</b>	<b>107854</b>	<b>0</b>	<b>0</b>

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1988. (CONT.)

SPECIES	FISH POT	BOTTOM LONGLINE	PELAGIC LONGLINE	OTHER HODK&LINE	GROUND FISH TRAWL	MIDWATER TRAWL	SHRIMP TRAWL	SQUID NET	OCEAN GILLNET
FISH:									
Anchovy, northern....	0	0	0	0	0	0	0	0	0
Cabezon.....	0	2612	0	17265	182	0	0	0	0
Cod, Pacific.....	0	2375	0	0	2246453	2675	29127	0	0
Flounder, arrowtooth..	0	1234	0	5	1405163	0	7675	0	0
Flounder, starry.....	0	1	0	75	315266	0	747	0	0
Greenling.....	0	1	0	149	0	0	0	0	0
Grenadier.....	2753	0	0	0	44101	0	0	0	0
Hagfish.....	25782	0	0	0	0	0	0	0	0
Hake, Pac. (Whiting)..	0	0	0	0	124265	417169	0	0	0
Halibut, Pacific.....	0	578853	0	333	0	0	0	0	0
Herring, Pacific.....	0	0	0	1160	94	0	0	0	0
Lamprey.....	0	0	0	0	0	0	0	0	0
Lingcod.....	522	46656	0	170522	1915037	1241	49383	0	0
Hackeral.....	0	0	0	0	106	22	0	0	0
Opah.....	0	0	0	0	0	0	0	0	160
Ratfish.....	0	5	0	17	1	0	0	0	0
Pac. Oc. Perch.....	615	217	0	0	1397146	3542	1648	0	0
Nominal POP.....	0	11017	0	49	2950401	4583	14649	0	0
Rockfish, widow.....	0	436	0	1536	2469297	9534882	2709	0	0
Rockfish, yellowtail..	0	5631	0	7031	4571755	246985	129230	0	0
Rkfsh, Sebastolobus..	125	3925	0	0	2205286	0	514	0	0
Rockfish, other spp..	6264	239787	0	471756	7760436	45736	1152401	0	0
Sablefish.....	2647669	1557865	0	2736	4730934	0	60510	0	0
Salmon, chinook.....	0	0	0	0	0	0	0	0	0
Salmon, chum.....	0	0	0	0	0	0	0	0	0
Salmon, coho.....	0	0	0	0	0	0	0	0	0
Salmon, pink.....	0	0	0	0	0	0	0	0	0
Salmon, sockeye.....	0	0	0	0	0	0	0	0	0

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1988. (CONT.)

SPECIES	FISH POT	BOTTOM LONGLINE	PELAGIC LONGLINE	OTHER HOOK&LINE	GROUNDFISH TRAWL	MIDWATER TRAWL	SHRIMP TRAWL	SQUID NET	OCEAN GILLNET
Sanddab, Pacific.....	0	0	0	0	239829	0	2025	0	0
Irish Lord, Red.....	0	0	0	1	0	0	0	0	0
Sculpin, Buffalo.....	0	0	0	10	0	0	0	0	0
Shad, American.....	0	0	0	0	80	0	0	0	0
Shark, soupfin.....	0	309	0	25	1645	23	275	0	615
Shark, spiny dogfish.	0	10	0	50	986	0	30	0	0
Shark, thresher.....	0	0	0	0	99	0	82	0	88591
Shark, other.....	0	10	0	0	57	0	0	0	0
Skates and rays.....	0	46	0	20	4478	0	0	0	0
Smelt.....	0	0	0	0	0	0	0	0	0
Sole, butter.....	0	0	0	0	691	0	0	0	0
Sole, curlfin (turbot)	0	8	0	0	6320	0	0	0	0
Sole, Dover.....	509	423	0	0	16859572	0	64698	0	0
Sole, English.....	0	0	0	0	1280865	0	407	0	0
Sole, flathead.....	0	0	0	0	20708	0	0	0	0
Sole, petrale.....	0	277	0	0	1987428	0	1780	0	0
Sole, rex.....	0	0	0	0	734567	0	232	0	0
Sole, rock.....	0	0	0	0	11383	0	0	0	0
Sole, sand.....	0	14	0	0	349535	0	0	0	0
Steelhead.....	0	0	0	0	0	0	0	0	0
Sturgeon, green.....	0	0	0	0	3899	0	0	0	0
Sturgeon, white.....	0	0	0	0	3642	0	128	0	0
Sunfish, ocean.....	0	0	0	0	0	0	0	0	0
Surfperch.....	0	0	0	5551	0	0	0	0	0
Tomcod, Pacific.....	0	0	0	69	0	0	0	0	0
Tuna, albacore.....	0	0	0	0	0	0	0	0	8984
Tuna, other.....	0	0	0	0	0	0	0	0	0
Wolf-eel.....	0	384	0	357	2094	5	0	0	0
Wrymouth.....	8	0	0	0	526	0	26	0	0

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1988. (CONT.)

SPECIES	FISH POT	BOTTOM LONGLINE	PELAGIC LONGLINE	OTHER HOOK&LINE	GROUND FISH TRAWL	MIDWATER TRAWL	SHRIMP TRAWL	SQUID NET	OCEAN GILLNET
Miscellaneous.....	45	0	0	6	2	0	0	0	0
CRUSTACEANS:									
Barnacle, Gooseneck..	0	0	0	0	0	0	0	0	0
Crab, Dungeness, Bay.	0	0	0	0	0	0	0	0	0
Crab, Dungeness, Oc..	0	0	0	0	0	0	0	0	0
Crab, mole.....	0	0	0	0	0	0	0	0	0
Crab, rock.....	0	0	0	0	0	0	0	0	0
Crayfish.....	0	0	0	0	0	0	0	0	0
Shrimp, brine.....	0	0	0	0	0	0	0	0	0
Shrimp, ghost.....	0	0	0	0	0	0	0	0	0
Shrimp, mud.....	0	0	0	0	0	0	0	0	0
Shrimp, pink.....	0	0	0	0	0	0	41846202	0	0
MOLLUSKS:									
Clams, butter.....	0	0	0	0	0	0	0	0	0
Clams, cockle.....	0	0	0	0	0	0	0	0	0
Clams, gaper.....	0	0	0	0	0	0	0	0	0
Clams, littleneck....	0	0	0	0	0	0	0	0	0
Clams, softshell.....	0	0	0	0	0	0	0	0	0
Clams, razor.....	0	0	0	0	0	0	0	0	0
Mussels, ocean.....	0	0	0	0	0	0	0	0	0
Mussels, freshwater..	0	0	0	0	0	0	0	0	0
Octopus.....	145	2073	0	69	17714	0	2253	0	0
Scallops, weathervane	0	0	0	0	56	0	0	0	0
Squid.....	0	0	0	0	5	0	0	0	0
OTHER INVERTEBRATES:									
Sea urchins, red.....	0	0	0	0	0	0	0	0	0
Worms, tube.....	0	0	0	0	0	0	0	0	0
TOTAL	2684437	2454169	0	678792	53662094	10256863	43366731	0	98350

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1988. (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	26	0	0	0	0	26
Cabazon.....	4802	0	0	0	0	0	0	0	0	0	24987
Cod, Pacific.....	0	0	0	0	0	0	0	0	0	0	2280678
Flounder, arrowtooth..	0	0	0	0	0	0	0	0	0	0	1414080
Flounder, starry.....	18	0	0	0	0	0	0	0	0	0	345650
Greenling.....	2	0	0	0	0	0	0	0	0	0	177
Grenadier.....	0	0	0	0	0	0	0	0	0	0	46854
Hagfish.....	0	0	0	0	0	0	0	0	0	0	25782
Hake, Pac. (Whiting)..	0	0	0	0	0	0	0	0	0	0	543196
Halibut, Pacific.....	0	0	0	0	0	0	0	0	0	0	582020
Herring, Pacific.....	0	0	0	0	0	0	0	0	354636	0	355890
Lamprey.....	0	0	0	0	0	10896	0	0	0	0	10896
Lingcod.....	532	0	0	0	0	0	0	0	0	0	2222190
Mackerel.....	0	0	0	0	0	0	0	0	0	0	1403
Opah.....	0	0	0	0	0	0	0	0	0	0	160
Ratfish.....	0	0	0	0	0	0	0	0	0	0	28
Pac. Oc. Perch.....	0	0	0	0	0	0	0	0	0	0	1403168
Nominal POP.....	0	0	0	0	0	0	0	0	0	0	2980699
Rockfish, widow.....	0	0	0	0	0	0	0	0	0	0	12009023
Rockfish, yellowtail..	0	0	0	0	0	0	0	0	0	0	4960998
Rkfsh, Sebastolobus...	0	0	0	0	0	0	0	0	0	0	2209850
Rockfish, other spp...	1074	0	0	0	0	0	0	0	0	0	9838085
Sablefish.....	0	0	0	0	0	0	0	0	0	0	8999796
Salmon, chinook.....	0	0	0	0	0	0	0	0	0	0	11741177
Salmon, chum.....	0	0	0	0	0	0	0	0	0	0	14697
Salmon, coho.....	0	0	0	0	0	0	0	0	0	0	5697737
Salmon, pink.....	0	0	0	0	0	0	0	0	0	0	12
Salmon, sockeye.....	0	0	0	0	0	0	0	0	0	0	65036



TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1988. (CONT.)

SPECIES	CRAB POT	CRAB RING	CLAM SHOVEL OR RAKE	CLAM PUMP OR JET	HAND DEVICE	SCALLOP DREDGE	SANDSHRIMP PUMP	BAITFISH NET	CRAYFISH TRAP	TOTAL ALL GEARS
Sanddab, Pacific.....	1	0	0	0	0	0	0	0	0	241914
Irish Lord, Red.....	5	0	0	0	0	0	0	0	0	6
Sculpin, Buffalo.....	11	0	0	0	0	0	0	0	0	21
Shad, American.....	0	0	0	0	0	0	0	0	0	393621
Shark, soupfin.....	0	0	0	0	0	0	0	0	0	3029
Shark, spiny dogfish..	31	0	0	0	0	0	0	0	0	1110
Shark, thresher.....	0	0	0	0	0	0	0	0	0	88957
Shark, other.....	0	0	0	0	0	0	0	0	0	67
Skates and rays.....	7	0	0	0	20	0	0	0	0	4571
Smelt.....	0	0	0	0	0	0	0	40	0	58971
Sole, butter.....	0	0	0	0	0	0	0	0	0	691
Sole, curlfin (turbot)	0	0	0	0	0	0	0	0	0	6328
Sole, Dover.....	0	0	0	0	0	0	0	0	0	16925202
Sole, English.....	0	0	0	0	0	0	0	0	0	1281272
Sole, flathead.....	0	0	0	0	0	0	0	0	0	20708
Sole, petrale.....	0	0	0	0	0	0	0	0	0	1989500
Sole, rex.....	0	0	0	0	0	0	0	0	0	734799
Sole, rock.....	0	0	0	0	0	0	0	0	0	11383
Sole, sand.....	18	0	0	0	0	0	0	0	0	349569
Steelhead.....	0	0	0	0	0	0	0	0	0	267345
Sturgeon, green.....	0	0	0	0	0	0	0	0	0	58028
Sturgeon, white.....	0	0	0	0	0	0	0	0	0	231041
Sunfish, ocean.....	0	0	0	0	0	0	0	0	0	50
Surfperch.....	0	0	0	0	0	0	0	0	0	5551
Tomcod, Pacific.....	0	0	0	0	0	0	0	0	0	69
Tuna, albacore.....	0	0	0	0	0	0	0	0	0	3967120
Tuna, other.....	0	0	0	0	0	0	0	0	0	154
Wolf-eel.....	2006	0	0	0	1	0	0	0	0	4857
Wrymouth.....	0	0	0	0	0	0	0	0	0	560

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1988. (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
Miscellaneous.....	53	54	0	0	67	0	0	0	0	0	227
CRUSTACEANS:											
Barnacle, Gooseneck...	0	0	0	0	30	0	0	0	0	0	30
Crab, Dungeness, Bay..	0	37598	0	0	0	0	0	0	0	0	37598
Crab, Dungeness, Oc...	9375777	627	0	0	0	0	0	0	0	0	9376404
Crab, mole.....	0	0	15	0	0	0	0	0	0	0	15
Crab, rock.....	1588	5054	0	0	1130	0	0	0	0	0	7772
Crayfish.....	0	0	0	0	0	0	0	0	0	299013	299013
Shrimp, brine.....	0	0	0	0	26600	0	0	0	0	0	26600
Shrimp, ghost.....	0	0	0	0	0	0	70815	0	0	0	70815
Shrimp, mud.....	0	0	0	0	0	0	40277	0	0	0	40277
Shrimp, pink.....	0	0	0	0	0	0	0	0	0	0	41846202
MOLLUSKS:											
Clams, butter.....	0	0	1477	0	1015	0	0	0	0	0	2492
Clams, cockle.....	0	0	3825	0	26243	0	0	0	0	0	30068
Clams, gaper.....	0	0	441	0	3215	0	0	0	0	0	3656
Clams, littleneck.....	0	0	18	0	6953	0	0	0	0	0	6971
Clams, softshell.....	0	0	1406	0	190	0	0	0	0	0	1596
Clams, razor.....	0	0	33910	0	0	0	0	0	0	0	33910
Mussels, ocean.....	0	0	0	0	50656	0	0	0	0	0	50656
Mussels, freshwater...	0	0	0	0	2564	0	0	0	0	0	2564
Octopus.....	24580	0	0	0	0	0	0	0	0	0	46903
Scallops, weathervane	0	0	0	0	0	29170	0	0	0	0	29226
Squid.....	0	0	0	0	0	0	0	0	0	0	5
OTHER INVERTEBRATES:											
Sea urchins, red.....	0	0	0	0	1970963	0	0	0	0	0	1970963
Worms, tube.....	0	0	0	0	1570	0	0	0	0	0	1570
<b>TOTAL</b>	<b>9410505</b>	<b>43333</b>	<b>41092</b>	<b>0</b>	<b>2102139</b>	<b>29170</b>	<b>111092</b>	<b>354676</b>	<b>299013</b>	<b>148306322</b>	

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1988.

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	SHELT TRAWL
FISH:										
Anchovy, northern.....	0	0	0	0	0	0	0	0	0	0
Cabezon.....	25	0	0	0	0	0	0	0	0	0
Cod, Pacific.....	13	0	0	0	0	0	0	0	0	0
Flounder, arrowtooth..	1	0	0	0	0	0	0	0	0	0
Flounder, starry.....	8	0	0	0	8618	0	0	0	0	0
Greenling.....	19	0	0	0	0	0	0	0	0	0
Grenadier.....	0	0	0	0	0	0	0	0	0	0
Hagfish.....	0	0	0	0	0	0	0	0	0	0
Hake, Pac. (Whiting)..	178	0	0	0	0	0	0	0	0	0
Halibut, Pacific.....	4419	0	0	0	0	0	0	0	0	0
Herring, Pacific.....	0	0	0	0	0	0	0	0	0	0
Lamprey.....	0	0	0	0	0	0	0	0	0	0
Lingcod.....	18732	0	0	0	0	0	0	0	0	0
Mackerel.....	352	0	0	0	0	0	0	0	0	0
Opah.....	0	0	0	0	0	0	0	0	0	0
Ratfish.....	1	0	0	0	0	0	0	0	0	0
Pac. Oc. 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.....	47	0	0	0	0	0	0	0	0	0
Rockfish, yellowtail..	131	0	0	0	0	0	0	0	0	0
Rkfsh, Sebastolobus...	0	0	0	0	0	0	0	0	0	0
Rockfish, other spp...	58279	0	0	0	32	0	0	0	0	0
Sablefish.....	56	0	0	0	0	0	0	0	0	0
Salmon, chinook.....	14009071	0	253	0	10099086	2721933	0	12406	0	0
Salmon, chum.....	1774	0	0	0	8876	0	0	0	0	0
Salmon, coho.....	7616139	0	0	0	4070890	18132	0	5235	0	0
Salmon, pink.....	10	0	0	0	0	0	0	0	0	0
Salmon, sockeye.....	0	0	0	0	57922	67361	0	997	0	0

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1988. (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	SHELT TRAWL
Sanddab, Pacific.....	16	0	0	0	0	0	0	0	0	0
Irish Lord, Red.....	0	0	0	0	0	0	0	0	0	0
Sculpin, Buffalo.....	0	0	0	0	0	0	0	0	0	0
Shad, American.....	0	0	28936	9570	53008	2037	0	11	0	0
Shark, soupfin.....	129	0	0	0	0	0	0	0	0	0
Shark, spiny dogfish..	0	0	0	0	0	0	0	0	0	0
Shark, thresher.....	305	0	0	0	0	0	0	0	0	0
Shark, other.....	0	0	0	0	0	0	0	0	0	0
Skates and rays.....	0	0	0	0	0	0	0	0	0	0
Smelt.....	0	0	0	0	961	0	0	11313	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.....	0	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.....	13	0	0	0	0	0	0	0	0	0
Sole, rex.....	0	0	0	0	0	0	0	0	0	0
Sole, rock.....	0	0	0	0	0	0	0	0	0	0
Sole, sand.....	2	0	0	0	0	0	0	0	0	0
Steelhead.....	0	0	0	0	0	331747	0	50989	0	0
Sturgeon, green.....	0	0	0	0	30209	0	0	0	0	0
Sturgeon, white.....	0	0	0	0	276521	127929	14009	0	0	0
Sunfish, ocean.....	5	0	0	0	0	0	0	0	0	0
Surfperch.....	0	0	0	0	0	0	0	0	0	0
Tomcod, Pacific.....	0	0	0	0	0	0	0	0	0	0
Tuna, albacore.....	3197110	123193	0	0	0	0	0	0	0	0
Tuna, other.....	65	0	0	0	0	0	0	0	0	0
Wolf-eel.....	3	0	0	0	0	0	0	0	0	0
Wrymouth.....	0	0	0	0	0	0	0	0	0	0

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TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1988. (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	SHELT TRAWL
Miscellaneous.....	0	0	0	0	0	0	0	0	0	0
CRUSTACEANS:										
Barnacle, Gooseneck...	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, Oc...	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
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
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, softshell.....	0	0	0	0	0	0	0	0	0	0
Clams, razor.....	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
Octopus.....	31	0	0	0	0	0	0	0	0	0
Scallops, weathervane	0	0	0	0	0	0	0	0	0	0
Squid.....	0	0	0	0	0	0	0	0	0	0
OTHER INVERTEBRATES:										
Sea urchins, red.....	0	0	0	0	0	0	0	0	0	0
Worms, tube.....	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>24906934</b>	<b>123193</b>	<b>29189</b>	<b>9570</b>	<b>14606123</b>	<b>3269139</b>	<b>14009</b>	<b>80951</b>	<b>0</b>	<b>0</b>

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1988. (CONT.)

SPECIES	FISH POT	BOTTOM LONGLINE	PELAGIC LONGLINE	OTHER HOOK&LINE	GROUNDFISH TRAWL	MIDWATER TRAWL	SHRIMP TRAWL	SQUID NET	OCEAN GILLNET
FISH:									
Anchovy, northern....	0	0	0	0	0	0	0	0	0
Cabezon.....	0	571	0	4937	43	0	0	0	0
Cod, Pacific.....	0	707	0	0	616420	695	7755	0	0
Flounder, arrowtooth.	0	141	0	1	184543	0	1053	0	0
Flounder, starry.....	0	0	0	23	98261	0	187	0	0
Greenling.....	0	1	0	100	0	0	0	0	0
Grenadier.....	276	0	0	0	7055	0	0	0	0
Hagfish.....	9024	0	0	0	0	0	0	0	0
Hake, Pac. (Whiting).	0	0	0	0	9248	31757	0	0	0
Halibut, Pacific.....	0	868782	0	645	0	0	0	0	0
Herring, Pacific.....	0	0	0	594	9	0	0	0	0
Lamprey.....	0	0	0	0	0	0	0	0	0
Lingcod.....	234	25429	0	93494	646047	432	14916	0	0
Mackerel.....	0	0	0	0	11	2	0	0	0
Opah.....	0	0	0	0	0	0	0	0	80
Ratfish.....	0	1	0	1	0	0	0	0	0
Pac. Oc. Perch.....	308	81	0	0	407745	917	475	0	0
Nominal POP.....	0	4099	0	19	795209	1189	3503	0	0
Rockfish, widow.....	0	185	0	447	691595	2692953	719	0	0
Rockfish, yellowtail.	0	1902	0	2775	1294280	70903	28027	0	0
Rkfsh, Sebastolobus..	44	1276	0	0	778596	0	180	0	0
Rockfish, other spp..	2696	112409	0	215942	2219680	13279	276654	0	0
Sablefish.....	1557792	1050124	0	1713	1723906	0	16240	0	0
Salmon, chinook.....	0	0	0	0	0	0	0	0	0
Salmon, chum.....	0	0	0	0	0	0	0	0	0
Salmon, coho.....	0	0	0	0	0	0	0	0	0
Salmon, pink.....	0	0	0	0	0	0	0	0	0
Salmon, sockeye.....	0	0	0	0	0	0	0	0	0

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1988. (CONT.)

SPECIES	FISH POT	BOTTOM LONGLINE	PELAGIC LONGLINE	OTHER HOOK&LINE	GROUND FISH TRAWL	MIDWATER TRAWL	SHRIMP TRAWL	SQUID NET	OCEAN GILLNET
Sanddab, Pacific.....	0	0	0	0	78814	0	528	0	0
Irish Lord, Red.....	0	0	0	0	0	0	0	0	0
Sculpin, Buffalo.....	0	0	0	1	0	0	0	0	0
Shad, American.....	0	0	0	0	13	0	0	0	0
Shark, soupfin.....	0	229	0	25	1556	32	316	0	464
Shark, spiny dogfish.	0	1	0	34	147	0	4	0	0
Shark, thresher.....	0	0	0	0	163	0	82	0	134639
Shark, other.....	0	8	0	0	31	0	0	0	0
Skates and rays.....	0	12	0	6	1435	0	0	0	0
Smelt.....	0	0	0	0	0	0	0	0	0
Sole, butter.....	0	0	0	0	173	0	0	0	0
Sole, curlfin (turbot)	0	2	0	0	2230	0	0	0	0
Sole, Dover.....	160	120	0	0	5198537	0	17638	0	0
Sole, English.....	0	0	0	0	500584	0	152	0	0
Sole, flathead.....	0	0	0	0	7946	0	0	0	0
Sole, petrale.....	0	235	0	0	1660600	0	1129	0	0
Sole, rex.....	0	0	0	0	285181	0	60	0	0
Sole, rock.....	0	0	0	0	3022	0	0	0	0
Sole, sand.....	0	10	0	0	260988	0	0	0	0
Steelhead.....	0	0	0	0	0	0	0	0	0
Sturgeon, green.....	0	0	0	0	2087	0	0	0	0
Sturgeon, white.....	0	0	0	0	5608	0	192	0	0
Sunfish, ocean.....	0	0	0	0	0	0	0	0	0
Surfperch.....	0	0	0	3105	0	0	0	0	0
Tomcod, Pacific.....	0	0	0	31	0	0	0	0	0
Tuna, albacore.....	0	0	0	0	0	0	0	0	6986
Tuna, other.....	0	0	0	0	0	0	0	0	0
Wolf-eel.....	0	79	0	92	503	1	0	0	0
Wrymouth.....	1	0	0	0	53	0	4	0	0

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1988. (CONT.)

SPECIES	FISH POT	BOTTOM LONGLINE	PELAGIC LONGLINE	OTHER HOOK&LINE	GROUND FISH TRAWL	MIDWATER TRAWL	SHRIMP TRAWL	SQUID NET	OCEAN GILLNET
Miscellaneous.....	90	0	0	12	4	0	0	0	0
CRUSTACEANS:									
Barnacle, Gooseneck..	0	0	0	0	0	0	0	0	0
Crab, Dungeness, Bay.	0	0	0	0	0	0	0	0	0
Crab, Dungeness, Oc..	0	0	0	0	0	0	0	0	0
Crab, mole.....	0	0	0	0	0	0	0	0	0
Crab, rock.....	0	0	0	0	0	0	0	0	0
Crayfish.....	0	0	0	0	0	0	0	0	0
Shrimp, brine.....	0	0	0	0	0	0	0	0	0
Shrimp, ghost.....	0	0	0	0	0	0	0	0	0
Shrimp, mud.....	0	0	0	0	0	0	0	0	0
Shrimp, pink.....	0	0	0	0	0	0	17149668	0	0
MOLLUSKS:									
Clams, butter.....	0	0	0	0	0	0	0	0	0
Clams, cockle.....	0	0	0	0	0	0	0	0	0
Clams, gaper.....	0	0	0	0	0	0	0	0	0
Clams, littleneck...	0	0	0	0	0	0	0	0	0
Clams, softshell.....	0	0	0	0	0	0	0	0	0
Clams, razor.....	0	0	0	0	0	0	0	0	0
Mussels, ocean.....	0	0	0	0	0	0	0	0	0
Mussels, freshwater..	0	0	0	0	0	0	0	0	0
Octopus.....	78	1209	0	48	11893	0	1300	0	0
Scallops, weathervane	0	0	0	0	62	0	0	0	0
Squid.....	0	0	0	0	1	0	0	0	0
OTHER INVERTEBRATES:									
Sea urchins, red.....	0	0	0	0	0	0	0	0	0
Worms, tube.....	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>1570703</b>	<b>2067613</b>	<b>0</b>	<b>324045</b>	<b>17494279</b>	<b>2812160</b>	<b>17520782</b>	<b>0</b>	<b>142169</b>



TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1988. (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	13	0	0	0	0	13
Cabezon.....	1534	0	0	0	0	0	0	0	0	0	7110
Cod, Pacific.....	0	0	0	0	0	0	0	0	0	0	625590
Flounder, arrowtooth..	0	0	0	0	0	0	0	0	0	0	185739
Flounder, starry.....	10	0	0	0	0	0	0	0	0	0	107107
Greenling.....	1	0	0	0	0	0	0	0	0	0	121
Grenadier.....	0	0	0	0	0	0	0	0	0	0	7331
Hagfish.....	0	0	0	0	0	0	0	0	0	0	9024
Hake, Pac. (Whiting)..	0	0	0	0	0	0	0	0	0	0	41183
Halibut, Pacific.....	0	0	0	0	0	0	0	0	0	0	873846
Herring, Pacific.....	0	0	0	0	0	0	0	0	233438	0	234041
Lamprey.....	0	0	0	0	0	1634	0	0	0	0	1634
Lingcod.....	266	0	0	0	0	0	0	0	0	0	799550
Mackerel.....	0	0	0	0	0	0	0	0	0	0	365
Opah.....	0	0	0	0	0	0	0	0	0	0	80
Ratfish.....	0	0	0	0	0	0	0	0	0	0	3
Pac. Oc. Perch.....	0	0	0	0	0	0	0	0	0	0	409526
Nominal POP.....	0	0	0	0	0	0	0	0	0	0	804019
Rockfish, widow.....	0	0	0	0	0	0	0	0	0	0	3385946
Rockfish, yellowtail..	0	0	0	0	0	0	0	0	0	0	1398018
Rtfsh, Sebastolobus...	0	0	0	0	0	0	0	0	0	0	780096
Rockfish, other spp...	446	0	0	0	0	0	0	0	0	0	2899417
Sablefish.....	0	0	0	0	0	0	0	0	0	0	4349831
Salmon, chinook.....	0	0	0	0	0	0	0	0	0	0	26842749
Salmon, chum.....	0	0	0	0	0	0	0	0	0	0	10650
Salmon, coho.....	0	0	0	0	0	0	0	0	0	0	11710396
Salmon, pink.....	0	0	0	0	0	0	0	0	0	0	10
Salmon, sockeye.....	0	0	0	0	0	0	0	0	0	0	126280

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1988. (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
Sanddab, Pacific.....	0	0	0	0	0	0	0	0	0	79358
Irish Lord, Red.....	1	0	0	0	0	0	0	0	0	1
Sculpin, Buffalo.....	1	0	0	0	0	0	0	0	0	2
Shad, American.....	0	0	0	0	0	0	0	0	0	93575
Shark, soupfin.....	0	0	0	0	0	0	0	0	0	2751
Shark, spiny dogfish..	5	0	0	0	0	0	0	0	0	191
Shark, thresher.....	0	0	0	0	0	0	0	0	0	135189
Shark, other.....	0	0	0	0	0	0	0	0	0	39
Skates and rays.....	2	0	0	0	6	0	0	0	0	1461
Smelt.....	0	0	0	0	0	0	0	12	0	12286
Sole, butter.....	0	0	0	0	0	0	0	0	0	173
Sole, curlfin (turbot)	0	0	0	0	0	0	0	0	0	2232
Sole, Dover.....	0	0	0	0	0	0	0	0	0	5216455
Sole, English.....	0	0	0	0	0	0	0	0	0	500736
Sole, flathead.....	0	0	0	0	0	0	0	0	0	7946
Sole, petrale.....	0	0	0	0	0	0	0	0	0	1661977
Sole, rex.....	0	0	0	0	0	0	0	0	0	285241
Sole, rock.....	0	0	0	0	0	0	0	0	0	3022
Sole, sand.....	4	0	0	0	0	0	0	0	0	261004
Steelhead.....	0	0	0	0	0	0	0	0	0	382736
Sturgeon, green.....	0	0	0	0	0	0	0	0	0	32296
Sturgeon, white.....	0	0	0	0	0	0	0	0	0	424259
Sunfish, ocean.....	0	0	0	0	0	0	0	0	0	5
Surfperch.....	0	0	0	0	0	0	0	0	0	3105
Tomcod, Pacific.....	0	0	0	0	0	0	0	0	0	31
Tuna, albacore.....	0	0	0	0	0	0	0	0	0	3327289
Tuna, other.....	0	0	0	0	0	0	0	0	0	65
Wolf-eel.....	347	0	0	0	0	0	0	0	0	1025
Wrymouth.....	0	0	0	0	0	0	0	0	0	58

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1988. (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
Miscellaneous.....	106	108	0	0	214	0	0	0	0	534
CRUSTACEANS:										
Barnacle, Gooseneck...	0	0	0	0	8	0	0	0	0	8
Crab, Dungeness, Bay..	0	63332	0	0	0	0	0	0	0	63332
Crab, Dungeness, Oc...	11212856	785	0	0	0	0	0	0	0	11213641
Crab, mole.....	0	0	70	0	0	0	0	0	0	70
Crab, rock.....	1588	5054	0	0	1130	0	0	0	0	7772
Crayfish.....	0	0	0	0	0	0	0	0	415895	415895
Shrimp, brine.....	0	0	0	0	39900	0	0	0	0	39900
Shrimp, ghost.....	0	0	0	0	0	0	90038	0	0	90038
Shrimp, mud.....	0	0	0	0	0	0	66198	0	0	66198
Shrimp, pink.....	0	0	0	0	0	0	0	0	0	17149668
MOLLUSKS:										
Clams, butter.....	0	0	1035	0	514	0	0	0	0	1549
Clams, cockle.....	0	0	1047	0	11028	0	0	0	0	12075
Clams, gaper.....	0	0	264	0	912	0	0	0	0	1176
Clams, littleneck.....	0	0	23	0	8196	0	0	0	0	8219
Clams, softshell.....	0	0	490	0	64	0	0	0	0	554
Clams, razor.....	0	0	86831	0	0	0	0	0	0	86831
Mussels, ocean.....	0	0	0	0	20075	0	0	0	0	20075
Mussels, freshwater...	0	0	0	0	744	0	0	0	0	744
Octopus.....	16723	0	0	0	0	0	0	0	0	31282
Scallops, weathervane	0	0	0	0	0	11955	0	0	0	12017
Squid.....	0	0	0	0	0	0	0	0	0	1
OTHER INVERTEBRATES:										
Sea urchins, red.....	0	0	0	0	571083	0	0	0	0	571083
Worms, tube.....	0	0	0	0	314	0	0	0	0	314
TOTAL	11233890	69279	89760	0	655835	11955	156236	233450	415895	97837159

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1988.

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<u>TROLL</u>													
FISH:													
Cabezon.....	0	0	0	0	6	13	30	26	0	39	12	0	126
Cod, Pacific.....	0	0	0	0	0	8	24	5	0	11	0	0	48
Flounder, arrowtooth..	0	0	0	0	0	0	0	0	3	0	0	0	3
Flounder, starry.....	0	0	0	0	0	8	2	0	7	0	0	0	17
Greenling.....	0	0	0	0	0	23	2	0	0	0	0	0	25
Hake, Pac. (Whiting)..	0	0	0	0	0	0	9	1753	0	0	0	0	1762
Halibut, Pacific.....	0	0	0	0	0	0	2834	0	0	0	0	0	2834
Lingcod.....	0	0	0	0	4427	5866	7101	8729	5648	6504	22	0	38297
Hackeral.....	0	0	0	0	0	0	1030	224	7	14	0	0	1275
Ratfish.....	0	0	0	0	0	0	0	5	0	0	0	0	5
Rockfish, widow.....	0	0	0	0	10	0	0	0	163	0	0	0	173
Rockfish, yellowtail..	0	0	0	0	54	8	117	1	186	0	0	0	366
Rockfish, other spp...	0	0	0	0	23178	20625	29381	43170	22474	21398	290	0	160516
Sablefish.....	0	0	0	0	0	14	28	0	28	12	0	0	82
Salmon, chinook.....	0	0	0	0	620600	1091351	1093262	1430308	305018	475476	29817	0	5045832
Salmon, chum.....	0	0	0	0	483	518	155	50	0	31	0	0	1237
Salmon, coho.....	0	0	0	0	0	9326	2245707	1581275	0	0	0	0	3836308
Salmon, pink.....	0	0	0	0	0	3	9	0	0	0	0	0	12
Sanddab, Pacific.....	0	0	0	0	1	53	5	0	0	0	0	0	59
Shark, soupfin.....	0	0	0	0	0	0	0	0	0	137	0	0	137
Shark, spiny dogfish..	0	0	0	0	0	0	0	3	0	0	0	0	3
Shark, thresher.....	0	0	0	0	185	0	0	0	0	0	0	0	185
Sole, petrale.....	0	0	0	0	4	4	0	7	0	0	0	0	15
Sole, sand.....	0	0	0	0	2	0	0	0	0	0	0	0	2
Sunfish, ocean.....	0	0	0	0	0	0	0	50	0	0	0	0	50
Tuna, albacore.....	0	0	0	0	0	0	4860	2943640	753591	104108	0	0	3806199
Tuna, other.....	0	0	0	0	0	0	0	154	0	0	0	0	154
Wolf-eel.....	0	0	0	0	0	0	10	0	0	0	0	0	10

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1988. (CONT.)

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<b>MOLLUSKS:</b>													
Octopus.....	0	0	0	0	0	0	36	33	0	0	0	0	69
TOTAL	0	0	0	0	648950	1127820	3334602	6009433	1087125	607730	30141	0	12895801
<b>TUNA BAITBOAT</b>													
<b>FISH:</b>													
Tuna, albacore.....	0	0	0	0	0	0	0	151937	0	0	0	0	151937
TOTAL	0	0	0	0	0	0	0	151937	0	0	0	0	151937
<b>COASTAL GILLNET</b>													
<b>FISH:</b>													
Salmon, chinook.....	0	0	0	0	0	116	0	0	0	0	0	0	116
Shad, American.....	0	0	0	0	16817	18160	1814	0	0	0	0	0	36791
TOTAL	0	0	0	0	16817	18276	1814	0	0	0	0	0	36907
<b>COASTAL SETNET</b>													
<b>FISH:</b>													
Shad, American.....	0	0	0	0	1915	8818	466	0	0	0	0	0	11199
TOTAL	0	0	0	0	1915	8818	466	0	0	0	0	0	11199
<b>COL. R. GILLNET</b>													
<b>FISH:</b>													
Flounder, starry.....	0	3737	2830	0	0	10	0	10064	10474	2340	71	0	29526
Rockfish, other spp...	0	0	0	0	0	0	0	0	115	0	0	0	115
Salmon, chinook.....	0	157515	84565	0	0	301	0	1149893	3756983	144199	16096	0	5309552
Salmon, chum.....	0	0	0	0	0	0	0	0	23	6383	7054	0	13460
Salmon, coho.....	0	0	0	0	0	0	0	45462	1105050	662547	35525	0	1848584
Salmon, sockeye.....	0	0	0	0	0	31872	0	0	0	0	0	0	31872
Shad, American.....	0	0	0	0	105154	220574	0	0	0	93	0	0	325821
Smelt.....	1687	23	0	0	0	0	0	0	0	0	0	0	1710

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1988. (CONT.)

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Sturgeon, green.....	0	48	83	0	0	889	0	42177	10551	297	84	0	54129
Sturgeon, white.....	0	36237	10733	0	0	274	0	34896	49114	16961	6453	0	154668
TOTAL	1687	197560	98211	0	105154	253920	0	1282492	4932310	832820	65283	0	7769437
<u>COL. R. SETNET</u>													
FISH:													
Salmon, chinook.....	0	9	893	0	0	1247	3379	334970	1034328	2001	0	0	1376827
Salmon, coho.....	0	0	0	0	0	0	0	421	9438	0	0	0	9859
Salmon, sockeye.....	0	0	0	0	0	14137	18103	389	41	0	0	0	32670
Shad, American.....	0	0	0	0	0	8816	10409	451	0	0	0	0	19676
Steelhead.....	0	3315	3456	0	0	6110	9979	58082	147356	798	0	0	229096
Sturgeon, white.....	0	5979	16879	0	0	1104	1639	38442	2062	0	0	0	66105
TOTAL	0	9303	21228	0	0	31414	43509	432755	1193225	2799	0	0	1734233
<u>COL. R. SETLINE</u>													
FISH:													
Sturgeon, white.....	165	1379	1004	3950	0	0	0	0	0	0	0	0	6498
TOTAL	165	1379	1004	3950	0	0	0	0	0	0	0	0	6498
<u>COL. R. DIPNET</u>													
FISH:													
Salmon, chinook.....	0	0	73	0	0	24	64	2306	6383	0	0	0	8850
Salmon, coho.....	0	0	0	0	0	0	0	276	2710	0	0	0	2986
Salmon, sockeye.....	0	0	0	0	0	177	313	4	0	0	0	0	494
Shad, American.....	0	0	0	0	0	37	17	0	0	0	0	0	54
Smelt.....	1204	5775	0	50242	0	0	0	0	0	0	0	0	57221
Steelhead.....	0	189	183	0	0	3690	6429	17815	9943	0	0	0	38249
TOTAL	1204	5964	256	50242	0	3928	6823	20401	19036	0	0	0	107854

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1988. (CONT.)

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<u>FISH POT</u>													
FISH:													
Grenadier.....	0	0	0	650	204	1104	795	0	0	0	0	0	2753
Hagfish.....	0	0	0	0	0	0	0	0	0	10282	15500	0	25782
Lingcod.....	0	328	0	0	0	194	0	0	0	0	0	0	522
Pac. Oc. Perch.....	0	170	445	0	0	0	0	0	0	0	0	0	615
Rkfsh, Sebastolobus..	0	0	0	0	18	33	5	69	0	0	0	0	125
Rockfish, other spp...	0	0	0	1260	579	1066	2706	653	0	0	0	0	6264
Sablefish.....	0	86616	174807	284520	255221	601540	721748	523217	0	0	0	0	2647669
Sole, Dover.....	0	0	0	111	250	15	62	71	0	0	0	0	509
Wrymouth.....	0	0	0	0	0	0	0	8	0	0	0	0	8
Miscellaneous.....	0	45	0	0	0	0	0	0	0	0	0	0	45
MOLLUSKS:													
Octopus.....	0	0	0	0	0	0	0	130	15	0	0	0	145
TOTAL	0	87159	175252	286541	256272	603952	725316	524148	15	10282	15500	0	2684437
<u>BOTTOM LONGLINE</u>													
FISH:													
Cabezon.....	0	1116	365	147	796	0	0	128	34	15	6	5	2612
Cod, Pacific.....	0	0	34	560	0	125	780	876	0	0	0	0	2375
Flounder, arrowtooth..	2	0	12	253	60	474	354	79	0	0	0	0	1234
Flounder, starry.....	0	0	0	0	0	0	0	1	0	0	0	0	1
Greenling.....	0	0	0	0	0	0	0	1	0	0	0	0	1
Halibut, Pacific.....	0	0	0	0	0	0	247786	47924	156299	126844	0	0	578653
Lingcod.....	4950	10477	9444	3905	309	580	3867	2421	5970	3293	27	1413	46656
Ratfish.....	0	0	5	0	0	0	0	0	0	0	0	0	5
Pac. Oc. Perch.....	0	0	217	0	0	0	0	0	0	0	0	0	217
Nominal POP.....	0	0	1806	438	1059	3987	620	3107	0	0	0	0	11017
Rockfish, widow.....	0	0	0	0	0	0	269	0	0	167	0	0	436
Rockfish, yellowtail..	42	0	3188	1491	0	405	342	0	0	0	83	80	5631

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1988. (CONT.)

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Rkfsh, Sebastolobus...	0	0	21	16	0	215	1468	2205	0	0	0	0	3925
Rockfish, other spp...	4757	17866	16723	21720	16307	18966	66836	50384	15921	8253	315	1739	239787
Sablefish.....	2773	4201	16540	107246	205321	466546	422889	332349	0	0	0	0	1557865
Shark, soupfin.....	0	0	0	0	0	0	81	0	228	0	0	0	309
Shark, spiny dogfish..	0	0	10	0	0	0	0	0	0	0	0	0	10
Shark, other.....	0	0	0	0	0	0	0	10	0	0	0	0	10
Skates and rays.....	30	13	3	0	0	0	0	0	0	0	0	0	46
Sole, curlfin (turbot)	0	0	0	0	0	8	0	0	0	0	0	0	8
Sole, Dover.....	0	0	0	0	11	284	43	85	0	0	0	0	423
Sole, petrale.....	0	0	19	0	0	0	200	34	24	0	0	0	277
Sole, sand.....	0	0	0	0	0	0	14	0	0	0	0	0	14
Wolf-eel.....	0	24	8	71	252	0	0	24	0	5	0	0	334
MOLLUSKS:													
Octopus.....	50	400	270	763	45	0	139	235	171	0	0	0	2073
TOTAL	12604	34097	48665	136610	224160	491590	745688	439863	178647	138577	431	3237	2454169
OTHER HOOK & LINE													
FISH:													
Cabazon.....	1568	1683	1802	3887	699	2977	2255	467	305	893	0	729	17265
Flounder, arrowtooth..	0	0	0	0	0	0	0	0	0	5	0	0	5
Flounder, starry.....	0	1	0	0	0	70	1	1	0	2	0	0	75
Greenling.....	4	11	7	14	2	101	1	0	7	0	2	0	149
Halibut, Pacific.....	0	0	0	0	0	0	333	0	0	0	0	0	333
Herring, Pacific.....	0	887	190	50	0	0	20	12	1	0	0	0	1160
Lingcod.....	4546	36204	29491	41624	4364	5747	4012	4333	6517	20251	545	12888	170522
Ratfish.....	0	2	0	0	0	13	2	0	0	0	0	0	17
Nominal POP.....	0	41	8	0	0	0	0	0	0	0	0	0	49
Rockfish, widow.....	0	5	5	1449	5	72	0	0	0	0	0	0	1536
Rockfish, yellowtail..	640	2695	1633	1838	0	0	0	0	0	235	0	0	7031
Rockfish, other spp...	8035	72035	65288	129224	64894	35209	20607	26047	22644	20465	836	6472	471756



TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1988. (CONT.)

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Sablefish.....	0	0	0	27	0	3	14	2692	0	0	0	0	2736
Irish Lord, Red.....	1	0	0	0	0	0	0	0	0	0	0	0	1
Sculpin, Buffalo.....	2	0	6	0	0	0	0	0	2	0	0	0	10
Shark, soupfin.....	25	0	0	0	0	0	0	0	0	0	0	0	25
Shark, spiny dogfish..	0	40	0	0	0	0	10	0	0	0	0	0	50
Skates and rays.....	0	0	0	20	0	0	0	0	0	0	0	0	20
Surfperch.....	10	206	1227	3034	4	56	918	1	41	3	1	0	5551
Tomcod, Pacific.....	0	69	0	0	0	0	0	0	0	0	0	0	69
Wolf-eel.....	0	5	25	152	26	35	13	0	9	90	2	0	357
Miscellaneous.....	0	1	5	0	0	0	0	0	0	0	0	0	6
<b>MOLLUSKS:</b>													
Octopus.....	0	8	0	0	12	0	0	20	20	0	0	9	69
<b>TOTAL</b>	<b>14831</b>	<b>113883</b>	<b>99687</b>	<b>181369</b>	<b>70006</b>	<b>44283</b>	<b>28186</b>	<b>33573</b>	<b>29546</b>	<b>41944</b>	<b>1386</b>	<b>20098</b>	<b>678792</b>
<b>GROUND FISH TRAWL</b>													
<b>FISH:</b>													
Cabezon.....	0	25	27	77	0	32	0	0	0	0	21	0	182
Cod, Pacific.....	63209	51626	51686	231403	197307	215397	347232	399863	269015	311954	5396	112365	2246453
Flounder, arrowtooth..	115827	92286	99317	151748	187462	153708	157017	170855	86440	88405	8139	93957	1405163
Flounder, starry.....	169	2319	870	26588	51497	21638	111730	56242	16416	23887	192	3718	315266
Grenadier.....	0	0	0	725	5565	18815	6566	3275	3550	5365	0	240	44101
Hake, Pac. (Whiting)..	0	0	0	62837	0	1276	25429	16817	7965	9941	0	0	124265
Herring, Pacific.....	94	0	0	0	0	0	0	0	0	0	0	0	94
Lingcod.....	182524	125113	93598	79396	151142	166025	230891	203667	233173	296225	20542	132741	1915037
Mackerel.....	0	0	0	0	0	0	106	0	0	0	0	0	106
Ratfish.....	0	0	0	0	0	0	1	0	0	0	0	0	1
Pac. Oc. Perch.....	70930	111934	133356	109897	124837	141188	157935	133401	82783	164033	18156	148696	1397146
Nominal POP.....	293636	302429	207200	290112	358521	282018	154596	244161	203601	234113	30589	349425	2950401
Rockfish, widow.....	408666	215422	477939	185026	95425	146687	136633	360559	222407	108117	13705	98701	2469287
Rockfish, yellowtail..	282946	227732	402226	363039	310975	348752	556223	607928	421332	618159	85994	346449	4571755

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TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1988. (CONT.)

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Rkfsh, Sebastolobus...	164256	364103	264151	138204	160185	154140	191366	119370	135641	182601	48297	282972	2205286
Rockfish, other spp...	504664	602460	639882	559958	596916	972279	693533	821198	651232	772411	162508	783395	7760436
Sablefish.....	367013	529173	478609	513483	554714	601378	644090	253704	196079	253470	48943	290278	4730934
Sanddab, Pacific.....	33083	32716	36363	46008	11643	5293	8781	7438	16997	23646	476	17365	239829
Shad, American.....	0	0	0	35	20	0	0	0	0	25	0	0	80
Shark, soupfin.....	585	163	57	4	42	408	225	0	20	78	0	63	1645
Shark, spiny dogfish..	942	23	0	0	0	0	0	0	0	0	0	21	986
Shark, thresher.....	0	0	0	64	0	0	0	35	0	0	0	0	99
Shark, other.....	0	57	0	0	0	0	0	0	0	0	0	0	57
Skates and rays.....	0	394	398	908	410	0	281	157	438	365	30	1097	4478
Sole, butter.....	0	415	0	0	0	276	0	0	0	0	0	0	691
Sole, curlfin (turbot)	452	1912	491	776	829	1283	272	166	139	0	0	0	6320
Sole, Dover.....	1450987	2715794	2229715	1515995	934090	801544	939174	1194337	1143466	1409898	386189	2138383	16859572
Sole, English.....	106890	69755	94136	102306	64209	87926	115982	173730	156114	235178	14602	60037	1280865
Sole, flathead.....	1592	680	0	0	0	60	98	651	1396	16231	0	0	20708
Sole, petrale.....	490502	300050	111141	82660	73584	82024	80845	84256	98396	122228	54887	406855	1987428
Sole, rex.....	44597	79190	48371	70739	61809	67556	56230	72429	74232	111236	3737	44441	734567
Sole, rock.....	42	169	51	124	256	5087	5654	0	0	0	0	0	11383
Sole, sand.....	319	9169	5606	31721	23790	41952	88192	86813	38655	18745	1407	3166	349535
Sturgeon, green.....	64	422	36	198	701	345	431	1113	318	233	0	38	3899
Sturgeon, white.....	0	0	0	42	357	588	96	1438	1121	0	0	0	3642
Wolf-eel.....	0	24	40	293	775	381	397	90	77	17	0	0	2094
Wrymouth.....	0	0	0	70	144	110	31	32	104	35	0	0	526
Miscellaneous.....	0	0	0	0	0	0	0	0	0	0	0	2	2
MOLLUSKS:													
Octopus.....	949	571	839	1690	1828	1634	1845	3154	2949	1468	163	624	17714
Scallops, weathervane	56	0	0	0	0	0	0	0	0	0	0	0	56
Squid.....	0	0	0	0	0	0	0	0	0	5	0	0	5
TOTAL	4584994	5836128	5376105	4566126	3959033	4319800	4711882	5016879	4064056	5008069	903973	5315049	53662094

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1988. (CONT.)

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<u>MIDWATER TRAWL</u>													
FISH:													
Cod, Pacific.....	0	0	0	0	0	0	1981	0	0	0	0	694	2675
Hake, Pac. (Whiting)...	0	0	0	37851	22321	54862	67861	7509	38108	113021	0	75636	417169
Lingcod.....	242	31	0	188	10	212	406	0	152	0	0	0	1241
Mackerel.....	0	0	0	0	0	0	22	0	0	0	0	0	22
Pac. Oc. Perch.....	0	68	0	980	0	0	0	0	2494	0	0	0	3542
Nominal POP.....	0	134	0	1145	50	0	75	3179	0	0	0	0	4583
Rockfish, widow.....	1491336	1517785	1460034	1497923	847131	508323	387800	1078196	650861	0	0	95493	9534862
Rockfish, yellowtail..	0	19597	5985	53338	57895	7637	47957	32482	7760	0	0	14334	246985
Rockfish, other spp...	3822	8319	2204	1309	5914	8594	2245	232	10341	0	0	2756	45736
Shark, soupfin.....	23	0	0	0	0	0	0	0	0	0	0	0	23
Wolf-eel.....	0	0	0	0	5	0	0	0	0	0	0	0	5
TOTAL	1495423	1545934	1468223	1592734	933326	579628	508347	1121598	709716	113021	0	188913	10256863
<u>SHRIMP TRAWL</u>													
FISH:													
Cod, Pacific.....	0	0	0	2823	8505	8496	1957	1236	4029	2081	0	0	29127
Flounder, arrowtooth..	0	0	0	0	87	464	5432	1048	588	56	0	0	7675
Flounder, starry.....	0	0	0	0	0	0	11	0	736	0	0	0	747
Lingcod.....	0	0	0	2185	7871	12630	6293	5855	5136	9413	0	0	49383
Pac. Oc. Perch.....	0	0	0	0	0	698	100	0	0	850	0	0	1648
Nominal POP.....	0	0	0	732	2126	3696	1384	1518	2523	2670	0	0	14649
Rockfish, widow.....	0	0	0	1030	281	300	0	0	38	1060	0	0	2709
Rockfish, yellowtail..	0	0	0	3864	5182	27898	20532	41359	23878	6517	0	0	129230
Rkfsh, Sebastolobus...	0	0	0	3	0	137	145	136	11	82	0	0	514
Rockfish, other spp...	0	0	0	84679	138550	274142	224906	213654	113166	103304	0	0	1152401
Sablefish.....	0	0	0	444	9268	13157	14285	12681	7353	3322	0	0	60510
Sanddab, Pacific.....	0	0	0	189	0	0	0	0	1615	221	0	0	2025
Shark, soupfin.....	0	0	0	0	26	82	51	92	0	24	0	0	275

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1968. (CONT.)

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Shark, spiny dogfish..	0	0	0	0	0	0	0	0	0	30	0	0	30
Shark, thresher.....	0	0	0	0	0	0	0	82	0	0	0	0	82
Sole, Dover.....	0	0	0	2348	6029	15739	11656	11249	10291	7386	0	0	64698
Sole, English.....	0	0	0	74	27	1	3	19	123	160	0	0	407
Sole, petrale.....	0	0	0	144	103	202	211	22	405	693	0	0	1780
Sole, rex.....	0	0	0	50	0	19	0	50	0	113	0	0	232
Sturgeon, white.....	0	0	0	0	128	0	0	0	0	0	0	0	128
Wrymouth.....	0	0	0	0	5	15	0	6	0	0	0	0	26
CRUSTACEANS:													
Shrimp, pink.....	0	0	0	3292142	5064434	8152245	5990108	7342583	6070001	5934689	0	0	41846202
MOLLUSKS:													
Octopus.....	0	0	0	137	141	672	393	341	270	299	0	0	2253
TOTAL	0	0	0	3390844	5242763	8510593	6277467	7631931	6240163	6072970	0	0	43366731
<u>OCEAN GILLNET</u>													
FISH:													
Opah.....	0	0	0	0	0	0	0	0	160	0	0	0	160
Shark, soupfin.....	0	0	0	0	0	0	0	289	70	256	0	0	615
Shark, thresher.....	0	0	0	0	0	0	0	48240	20195	20156	0	0	88591
Tuna, albacore.....	0	0	0	0	0	0	0	50	6461	2473	0	0	8984
TOTAL	0	0	0	0	0	0	0	48579	26886	22885	0	0	98350
<u>CRAB POT</u>													
FISH:													
Cabezon.....	200	642	168	284	770	782	1542	74	0	0	0	340	4802
Flounder, starry.....	1	1	10	6	0	0	0	0	0	0	0	0	18
Greenling.....	2	0	0	0	0	0	0	0	0	0	0	0	2
Lingcod.....	26	165	78	55	28	77	70	0	0	0	0	13	532
Rockfish, other spp...	158	209	71	59	267	188	54	21	0	0	0	47	1074
Sanddab, Pacific.....	0	0	0	0	1	0	0	0	0	0	0	0	1

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1988. (CONT.)

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Irish Lord, Red.....	4	0	0	1	0	0	0	0	0	0	0	0	5
Sculpin, Buffalo.....	0	11	0	0	0	0	0	0	0	0	0	0	11
Shark, spiny dogfish..	0	0	0	0	0	0	0	0	0	0	0	31	31
Skates and rays.....	0	0	0	0	0	0	0	0	0	0	0	7	7
Sole, sand.....	0	9	3	1	1	0	0	0	0	0	0	4	18
Wolf-eel.....	15	47	136	746	844	118	100	0	0	0	0	0	2006
Miscellaneous.....	0	28	25	0	0	0	0	0	0	0	0	0	53
CRUSTACEANS:													
Crab, Dungeness, Oc...	1774556	980718	561056	470924	450220	143986	137713	70008	0	0	0	4786596	9375777
Crab, rock.....	314	510	223	167	320	0	54	0	0	0	0	0	1588
MOLLUSKS:													
Octopus.....	6882	5798	2483	2139	684	67	98	48	0	0	0	6381	24580
TOTAL	1782158	988158	564253	474382	453135	145218	139631	70151	0	0	0	4793419	9410505
<u>CRAB RING</u>													
FISH:													
Miscellaneous.....	0	28	25	0	0	0	0	1	0	0	0	0	54
CRUSTACEANS:													
Crab, Dungeness, Bay..	6	4	0	0	0	0	0	0	10590	16158	9179	1661	37598
Crab, Dungeness, Oc...	0	0	0	0	4	0	0	0	0	0	0	623	627
Crab, rock.....	20	426	1143	898	1063	134	428	343	420	51	138	0	5054
TOTAL	26	458	1168	898	1067	134	428	344	11010	16209	9317	2284	43333
<u>CLAM SHOVEL OR RAKE</u>													
CRUSTACEANS:													
Crab, mole.....	0	0	0	1	6	0	8	0	0	0	0	0	15
MOLLUSKS:													
Clams, butter.....	139	240	437	398	163	0	75	0	0	0	0	25	1477
Clams, cockle.....	0	2835	270	10	710	0	0	0	0	0	0	0	3825

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1988. (CONT.)

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Clams, gaper.....	0	0	0	0	0	0	124	140	89	0	0	88	441
Clams, littleneck.....	0	0	0	0	0	0	18	0	0	0	0	0	18
Clams, softshell.....	5	199	431	225	15	485	31	11	4	0	0	0	1404
Clams, razor.....	229	1203	3499	4141	7848	7420	706	0	1564	3071	723	3506	33910
TOTAL	373	4477	4637	4775	8742	7905	962	151	1657	3071	723	3619	41092
<u>HAND DEVICE</u>													
FISH:													
Anchovy, northern.....	0	0	0	0	0	0	0	26	0	0	0	0	26
Lamprey.....	0	0	0	0	0	1981	8847	68	0	0	0	0	10896
Skates and rays.....	0	0	0	0	0	0	0	0	0	0	0	20	20
Wolf-eel.....	0	0	0	0	0	0	0	0	0	0	1	0	1
Miscellaneous.....	0	61	6	0	0	0	0	0	0	0	0	0	67
CRUSTACEANS:													
Barnacle, Gooseneck...	0	0	0	0	0	0	0	0	0	30	0	0	30
Crab, rock.....	0	0	35	367	0	0	43	44	85	55	240	261	1130
Shrimp, brine.....	0	0	0	0	2100	8600	13800	2100	0	0	0	0	26600
MOLLUSKS:													
Clams, butter.....	0	75	104	400	180	150	60	32	14	0	0	0	1015
Clams, cockle.....	0	578	120	11868	4941	0	0	4732	300	600	0	3064	26243
Clams, gaper.....	0	0	0	0	0	0	774	680	310	836	0	615	3215
Clams, littleneck.....	0	20	127	236	444	905	1929	1747	370	887	191	97	6953
Clams, softshell.....	0	0	0	0	0	0	65	125	0	0	0	0	190
Mussels, ocean.....	3465	3134	6248	4670	3495	4828	7646	3655	2225	6135	1635	3520	50656
Mussels, freshwater...	0	0	0	0	0	0	0	0	2564	0	0	0	2564
OTHER INVERTEBRATES:													
Sea urchins, red.....	19969	67809	36243	55709	134925	222141	280773	355730	462112	108327	35355	191870	1970963
Worms, tube.....	0	0	310	50	805	210	195	0	0	0	0	0	1570
TOTAL	23434	71677	43193	73320	146890	238815	314132	368939	467980	116870	37422	199467	2102139

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1988. (CONT.)

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<u>SCALLOP DREDGE</u>													
MOLLUSKS:													
Scallops, weathervane	0	0	0	0	0	0	0	0	0	0	0	29170	29170
TOTAL	0	0	0	0	0	0	0	0	0	0	0	29170	29170
<u>BAITSHRIMP PUMP</u>													
CRUSTACEANS:													
Shrimp, ghost	2932	2989	5017	4417	7053	9542	7409	6978	7914	9828	3794	2942	70815
Shrimp, mud	8885	8830	3316	1644	891	754	815	536	1014	1909	3970	7713	40277
TOTAL	11817	11819	8333	6061	7944	10296	8224	7514	8928	11737	7764	10655	111092
<u>BAITFISH NET</u>													
FISH:													
Herring, Pacific	0	290336	450	63850	0	0	0	0	0	0	0	0	354636
Smelt	40	0	0	0	0	0	0	0	0	0	0	0	40
TOTAL	40	290336	450	63850	0	0	0	0	0	0	0	0	354676
<u>CRAYFISH TRAP</u>													
CRUSTACEANS:													
Crayfish	0	0	0	11198	21600	49846	85758	53698	48507	28406	0	0	299013
TOTAL	0	0	0	11198	21600	49846	85758	53698	48507	28406	0	0	299013
TOTAL	7928756	9198332	7910665	10842890	12097774	16446236	16983235	23214386	19018807	13027390	1071940	10565911	148306322

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, 1988

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
<b>FISH:</b>															
Anchovy, northern.....	0	0	13	0	0	0	0	0	0	0	0	0	0	0	13
Cabezon.....	0	0	178	137	4650	1074	0	0	57	0	1010	0	4	0	7110
Cod, Pacific.....	0	396889	32364	0	0	154354	0	149	36961	0	0	0	4873	0	625590
Flounder, arrowtooth..	0	127777	17506	0	0	20989	0	23	17424	0	7	0	2013	0	185739
Flounder, starry.....	8618	87246	68	0	0	6389	0	120	4148	0	0	0	518	0	107107
Greenling.....	0	0	0	0	0	29	0	0	0	0	92	0	0	0	121
Grenadier.....	0	0	0	0	0	0	276	0	19	0	0	0	7036	0	7331
Hagfish.....	0	0	0	0	0	9024	0	0	0	0	0	0	0	0	9024
Hake, Pac. (Whiting)..	0	1357	4700	0	0	33424	174	0	1528	0	0	0	0	0	41183
Halibut, Pacific.....	0	442282	33566	53	1264	273732	144	45406	68198	322	8679	0	0	0	873846
Herring, Pacific.....	0	0	0	0	9	234032	0	0	0	0	0	0	0	0	234041
Lamprey.....	0	0	0	0	0	0	0	0	0	0	0	0	0	1634	1634
Lingcod.....	0	310785	92878	6335	11224	118569	174	1473	153496	31	36859	129	67566	31	799550
Mackerel.....	0	0	87	6	5	231	0	0	36	0	0	0	0	0	365
Opah.....	0	80	0	0	0	0	0	0	0	0	0	0	0	0	80
Ratfish.....	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Pac. Oc. Perch.....	0	278338	7201	0	0	104052	0	0	19935	0	0	0	0	0	409526
Nominal POP.....	0	66982	153839	0	0	377837	0	17	167440	0	0	0	37904	0	804019
Rockfish, widow.....	0	1013985	108428	28	0	1704305	25	135	300922	0	50	0	258068	0	3385946
Rockfish, yellowtail..	0	953672	67907	0	0	169907	0	0	182839	0	15	0	23678	0	1398018
Rkfsh, Sebastolobus...	0	181433	17528	0	0	73482	0	791	271672	0	0	0	235190	0	780096
Rockfish, other spp...	32	1194595	145337	18209	22334	831625	919	4926	523625	3232	46760	126	107650	47	2699417
Sablefish.....	0	840378	83962	0	0	1549776	408783	303512	872023	102970	49425	0	138997	0	4349831
Salmon, chinook.....	12833425	109179	844891	296701	97811	3931454	758622	917860	4687749	537764	993564	8436	811035	14258	26842749
Salmon, chum.....	8876	0	41	137	42	315	178	128	726	0	74	0	133	0	10650
Salmon, coho.....	4094257	27527	957479	743259	227424	2945495	493730	580295	1262056	131803	169842	3960	27645	25624	11710396
Salmon, pink.....	0	0	2	0	0	6	0	0	2	0	0	0	0	0	10
Salmon, sockeye.....	126280	0	0	0	0	0	0	0	0	0	0	0	0	0	126280

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TABLE 42. ESTIMATED VALUE (\$), AT THE FISHERMEN'S LEVEL, OF COMMERCIAL FISH AND SHELLFISH LANDINGS BY PORT IN OREGON, 1988 (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
Sanddab, Pacific.....	0	39006	428	0	0	23217	15	0	15682	0	0	0	1010	0	79358
Irish Lord, Red.....	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Sculpin, Buffalo.....	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Shad, American.....	55056	0	6	0	0	3	9570	28936	4	0	0	0	0	0	93575
Shark, soupfin.....	0	1242	71	0	25	473	0	0	732	0	0	0	208	0	2751
Shark, spiny dogfish..	0	145	0	0	0	43	0	0	3	0	0	0	0	0	191
Shark, thresher.....	0	134884	0	0	0	0	0	0	0	0	0	0	305	0	135189
Shark, other.....	0	0	0	0	0	0	0	0	39	0	0	0	0	0	39
Skates and rays.....	0	343	0	0	0	873	0	0	242	0	3	0	0	0	1461
Smelt.....	12274	0	0	0	0	0	0	0	0	0	0	0	12	0	12286
Sole, butter.....	0	0	0	0	0	104	0	0	69	0	0	0	0	0	173
Sole, curlfin (turbot)	0	0	0	0	0	927	0	0	863	0	0	0	442	0	2232
Sole, Dover.....	0	1837375	180519	0	0	409879	87	2239	2434567	0	106	0	301683	0	5216455
Sole, English.....	0	211195	9934	0	16	124722	0	3	123245	0	0	0	31621	0	500736
Sole, flathead.....	0	6706	1240	0	0	0	0	0	0	0	0	0	0	0	7946
Sole, petrale.....	0	684870	62476	0	53	310459	0	210	537893	0	1	0	66015	0	1661977
Sole, rex.....	0	178602	15302	0	0	33290	0	0	36172	0	0	0	21875	0	285241
Sole, rock.....	0	214	1318	0	0	1441	0	0	49	0	0	0	0	0	3022
Sole, sand.....	0	187854	495	0	0	30380	2	100	32065	0	0	0	10108	0	261004
Steelhead.....	382736	0	0	0	0	0	0	0	0	0	0	0	0	0	382736
Sturgeon, green.....	30209	1269	0	0	0	700	0	0	100	0	0	0	18	0	32296
Sturgeon, white.....	418459	4133	0	0	0	0	0	70	1405	0	0	0	192	0	424259
Sunfish, ocean.....	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Surfperch.....	0	0	0	0	0	532	0	0	10	0	0	0	2563	0	3105
Tomcod, Pacific.....	0	0	0	0	0	0	0	0	0	0	0	0	31	0	31
Tuna, albacore.....	0	465486	18567	0	940	1885974	27298	117153	796054	4339	0	11478	0	0	3327289
Tuna, other.....	0	65	0	0	0	0	0	0	0	0	0	0	0	0	65
Wolf-eel.....	0	362	26	12	256	176	6	0	138	0	49	0	0	0	1025
Wrymouth.....	0	0	0	0	0	2	0	1	55	0	0	0	0	0	58

TABLE 42. ESTIMATED VALUE (\$), AT THE FISHERMEN'S LEVEL, OF COMMERCIAL FISH AND SHELLFISH LANDINGS BY PORT IN OREGON, 1988 (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
Miscellaneous.....	0	0	0	0	0	444	0	0	0	0	0	0	90	0	534
CRUSTACEANS:															
Barnacle, Gooseneck...	0	0	0	0	0	8	0	0	0	0	0	0	0	0	8
Crab, Dungeness, Bay..	0	0	168	0	0	585	16190	7253	22732	0	0	0	0	16404	63332
Crab, Dungeness, Oc...	0	3168548	495722	344	179295	3570865	483898	852533	948500	16905	183382	0	1308649	0	11213641
Crab, mole.....	0	0	0	0	0	0	0	0	12	0	4	54	0	0	70
Crab, rock.....	0	0	0	0	0	7772	0	0	0	0	0	0	0	0	7772
Crayfish.....	0	0	0	0	0	0	0	0	0	0	0	0	0	415895	415895
Shrimp, brine.....	0	0	0	0	0	0	0	0	0	0	0	0	0	39900	39900
Shrimp, ghost.....	0	0	6472	9066	0	1916	0	210	8593	0	0	0	0	63781	90038
Shrimp, mud.....	0	0	29530	0	0	0	0	0	3795	0	0	0	0	32873	66198
Shrimp, pink.....	0	4494755	1421688	0	0	5563924	0	18200	4303586	0	56354	0	1291161	0	17149668
MOLLUSKS:															
Clams, butter.....	0	0	507	0	0	0	0	0	1042	0	0	0	0	0	1549
Clams, cockle.....	0	0	11021	0	0	0	0	7	1047	0	0	0	0	0	12075
Clams, gaper.....	0	0	358	0	0	144	202	0	472	0	0	0	0	0	1176
Clams, littleneck.....	0	0	7926	0	0	0	0	0	293	0	0	0	0	0	8219
Clams, softshell.....	0	0	0	0	0	190	64	14	5	248	0	0	0	33	554
Clams, razor.....	0	0	0	0	0	0	0	0	0	0	0	0	0	86931	86831
Mussels, ocean.....	0	0	3501	0	100	254	986	10672	261	0	240	0	0	4061	20075
Mussels, freshwater...	0	0	0	0	0	0	0	0	0	0	0	0	0	744	744
Octopus.....	0	4274	336	0	134	4867	70	0	3798	0	8240	0	9563	0	31282
Scallops, weathervane	0	0	0	0	62	11955	0	0	0	0	0	0	0	0	12017
Squid.....	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
OTHER INVERTEBRATES:															
Sea urchins, red.....	0	0	0	0	2519	318	0	0	46359	0	441272	67580	13035	0	571083
Worms, tube.....	0	0	0	0	0	0	0	0	314	0	0	0	0	0	314
<b>TOTAL</b>	<b>17970222</b>	<b>17503333</b>	<b>4835587</b>	<b>1074287</b>	<b>548163</b>	<b>24526549</b>	<b>2201418</b>	<b>2892436</b>	<b>17891052</b>	<b>797614</b>	<b>2021228</b>	<b>91763</b>	<b>4780991</b>	<b>702116</b>	<b>97837159</b>

TABLE 42. ESTIMATED VALUE (\$), AT THE FISHERMEN'S LEVEL, OF COMMERCIAL FISH AND SHELLFISH LANDINGS BY PORT IN OREGON, 1988 (CONT.)

SPECIES	COLUMBIA RIVER 1/	ASTORIA GARIBALDI	PACIFIC CITY	DEPOE BAY	NEWPORT	FLORENCE	WINCHESTER BAY	CHARLESTON	BANDON	PORT ORFORD	GOLD BEACH	OTHER 2/	TOTAL
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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, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Anchovy, northern.....	0	0	0	0	0	0	0	13	0	0	0	0	13
Cabezon.....	445	815	599	1213	550	1158	1430	212	83	304	10	291	7110
Cod, Pacific.....	20858	15801	15639	70600	58839	64869	91395	104366	70973	81126	1403	29721	625590
Flounder, arrowtooth..	17371	13713	14904	22799	26146	23098	17053	17802	9421	9528	982	10842	165739
Flounder, starry.....	72	1964	1126	8971	17412	7207	33554	19816	8184	7554	81	1166	107107
Greenling.....	3	6	4	7	1	92	2	1	4	0	1	0	121
Grenadier.....	0	0	0	181	910	3121	1131	524	567	859	0	38	7331
Hagfish.....	0	0	0	0	0	0	0	0	0	3599	5425	0	9024
Hake, Pac. (Whiting)..	0	0	0	7098	2232	4490	7480	2059	3646	9311	0	4867	41183
Halibut, Pacific.....	0	0	0	0	0	0	432407	66080	202484	172875	0	0	873846
Herring, Pacific.....	9	185093	383	48539	0	0	10	6	1	0	0	0	234041
Lamprey.....	0	0	0	0	0	297	1327	10	0	0	0	0	1634
Lingcod.....	69553	70115	54916	54298	60036	67947	86875	76472	88397	114571	7142	49228	799550
Mackerel.....	0	0	0	0	0	0	292	67	3	3	0	0	365
Opah.....	0	0	0	0	0	0	0	0	80	0	0	0	80
Ratfish.....	0	0	1	0	0	1	0	1	0	0	0	0	3
Pac. Oc. Perch.....	23355	34831	40472	33361	37611	42300	44060	37246	23615	46128	5079	41468	409526
Nominal POP.....	91624	86265	56549	82548	105342	75477	38094	61949	51149	58515	8090	88417	804019
Rockfish, widow.....	623278	495744	542158	471923	265350	178928	134352	369059	223017	28416	3563	50158	3385946
Rockfish, yellowtail..	93632	75152	121092	126495	111321	111985	168363	181055	120553	168418	22511	97441	1398018
Rkfish, Sebastolobus...	55763	123781	89351	46827	54462	53965	71221	44636	50147	67495	17824	104624	780096
Rockfish, other spp...	174496	230148	230453	258466	259909	385531	289194	323191	232995	254078	44528	216428	2899417
Sablefish.....	129175	229766	280998	400198	469380	379750	909714	717101	80699	108978	22067	122005	4349831
Salmon, chinook.....	0	500755	284476	0	1400322	2730354	2965354	7396445	9668017	1776244	120782	0	26842749
Salmon, chum.....	0	0	0	0	551	860	240	65	23	4438	4473	0	10650
Salmon, coho.....	0	0	0	0	0	17087	4155227	3541108	2449815	1476016	71143	0	11710396
Salmon, pink.....	0	0	0	0	0	2	8	0	0	0	0	0	10
Salmon, sockeye.....	0	0	0	0	0	86928	38492	798	62	0	0	0	126280
Sanddab, Pacific.....	12242	11054	13366	16991	4211	1933	2500	1865	4741	5938	119	4348	79358

TABLE 43. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS IN OREGON, 1968. (CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Irish Lord, Red.....	1	0	0	0	0	0	0	0	0	0	0	0	1
Sculpin, Buffalo.....	0	1	1	0	0	0	0	0	0	0	0	0	2
Shad, American.....	0	0	0	4	33319	57844	2332	46	0	30	0	0	93575
Shark, soupfin.....	615	131	43	6	95	374	463	347	195	421	0	61	2751
Shark, spiny dogfish..	141	30	1	0	0	0	7	0	0	4	0	8	191
Shark, thresher.....	0	0	0	105	305	0	0	82125	29475	23179	0	0	135189
Shark, other.....	0	31	0	0	0	0	0	8	0	0	0	0	39
Skates and rays.....	8	129	129	297	132	0	90	50	140	117	10	359	1461
Smelt.....	1232	1048	0	10006	0	0	0	0	0	0	0	0	12286
Sole, butter.....	0	104	0	0	0	69	0	0	0	0	0	0	173
Sole, curlfin (turbot)	163	669	164	264	277	528	71	55	41	0	0	0	2232
Sole, Dover.....	478590	896209	735806	501491	309555	261497	268932	337183	323313	395539	108930	599410	5216455
Sole, English.....	43860	28882	38642	42050	26353	35618	43748	65514	58960	88867	5550	22692	500736
Sole, flathead.....	637	272	0	0	0	24	37	247	558	6171	0	0	7946
Sole, petrale.....	412598	250541	93167	69922	62439	69299	67968	70765	83463	103241	46537	332037	1661977
Sole, rex.....	17791	31691	19319	28173	24591	26801	21169	27284	28076	42166	1396	16784	285241
Sole, rock.....	16	67	20	50	102	1300	1467	0	0	0	0	0	3022
Sole, sand.....	240	6881	4191	23755	17837	30947	65733	64967	28951	14068	1055	2379	261004
Steelhead.....	0	5104	4519	0	0	11212	19708	104797	236206	1190	0	0	382736
Sturgeon, green.....	64	247	69	99	351	695	207	24601	5607	293	44	19	32296
Sturgeon, white.....	322	82062	56974	8775	639	3418	3131	134710	91232	31039	11957	0	424259
Sunfish, ocean.....	0	0	0	0	0	0	0	5	0	0	0	0	5
Surfperch.....	5	103	609	1874	2	28	459	1	21	2	1	0	3105
Tomcod, Pacific.....	0	31	0	0	0	0	0	0	0	0	0	0	31
Tuna, albacore.....	0	0	0	0	0	0	4025	2591176	642733	89355	0	0	3327289
Tuna, other.....	0	0	0	0	0	0	0	65	0	0	0	0	65
Wolf-eel.....	3	22	48	269	383	100	125	19	15	41	0	0	1025
Wrymouth.....	0	0	0	9	16	12	3	5	9	4	0	0	58
Miscellaneous.....	0	399	129	0	0	0	0	2	0	0	0	4	534

TABLE 43. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS IN OREGON, 1988. (CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<b>CRUSTACEANS:</b>													
Barnacle, Gooseneck...	0	0	0	0	0	0	0	0	0	8	0	0	8
Crab, Dungeness, Bay...	9	6	0	0	0	0	0	0	18693	27521	14726	2377	63332
Crab, Dungeness, Oc...	2249328	1194882	629390	526283	500415	169498	159213	81819	0	0	0	5702813	11213641
Crab, mole.....	0	0	0	6	16	0	48	0	0	0	0	0	70
Crab, rock.....	334	936	1401	1422	1383	134	525	387	505	106	378	261	7772
Crayfish.....	0	0	0	14032	29031	69292	121494	74667	67558	39821	0	0	415895
Shrimp, brine.....	0	0	0	0	3150	12900	20700	3150	0	0	0	0	39900
Shrimp, ghost.....	7956	5530	6624	4583	7232	10414	7561	6891	7673	11113	3581	10880	90038
Shrimp, mud.....	14846	14949	5547	2666	1486	1234	1180	876	1694	3177	6519	12024	66198
Shrimp, pink.....	0	0	0	1558714	2111128	3168897	2218661	2936330	2571350	2584588	0	0	17149668
<b>MOLLUSKS:</b>													
Clams, butter.....	97	232	408	439	186	60	83	19	7	0	0	18	1549
Clams, cockle.....	0	1223	183	4784	2215	0	0	1892	120	270	0	1368	12075
Clams, gaper.....	0	0	0	0	0	0	241	257	115	167	0	396	1176
Clams, littleneck.....	0	25	145	261	510	1040	2228	2108	440	1102	239	121	8219
Clams, softshell.....	1	73	168	70	2	155	36	47	2	0	0	0	554
Clams, razor.....	549	3102	9101	10768	20417	17204	1611	0	4106	8150	2015	9808	86831
Mussels, ocean.....	1769	1675	3042	2178	1977	1791	2520	911	842	1850	330	1190	20075
Mussels, freshwater...	0	0	0	0	0	0	0	0	744	0	0	0	744
Octopus.....	5899	5038	2081	2854	1600	1523	1501	2468	2168	1269	149	4732	31282
Scallops, weathervane	62	0	0	0	0	0	0	0	0	0	0	11955	12017
Squid.....	0	0	0	0	0	0	0	0	0	1	0	0	1
<b>OTHER INVERTEBRATES:</b>													
Sea urchins, red.....	4953	16412	8802	12689	36715	58828	78351	98556	126484	29158	9546	90589	571083
Worms, tube.....	0	0	62	10	161	42	39	0	0	0	0	0	314
<b>TOTAL</b>	<b>4553965</b>	<b>4623740</b>	<b>3367272</b>	<b>4479423</b>	<b>6070605</b>	<b>8750158</b>	<b>12605442</b>	<b>19676377</b>	<b>17620172</b>	<b>7898472</b>	<b>548186</b>	<b>7643347</b>	<b>97837159</b>

TABLE 44. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS FROM THE COLUMBIA RIVER, 1988. 1/

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<u>BELOW BONNEVILLE DAM</u>													
FISH:													
Flounder, starry.....	0	1159	858	0	0	3	0	2920	2965	690	23	0	8618
Rockfish, other spp....	0	0	0	0	0	0	0	0	32	0	0	0	32
Salmon, chinook.....	0	500752	280901	0	0	486	0	2353149	6686272	266104	11422	0	10099086
Salmon, chum.....	0	0	0	0	0	0	0	0	23	4380	4473	0	8876
Salmon, coho.....	0	0	0	0	0	0	0	96068	2427663	1476016	71143	0	4070890
Salmon, sockeye.....	0	0	0	0	0	57922	0	0	0	0	0	0	57922
Shad, American.....	0	0	0	0	17818	35166	0	0	0	24	0	0	53008
Smelt.....	1220	1048	0	10006	0	0	0	0	0	0	0	0	12274
Sturgeon, green.....	0	26	33	0	0	527	0	23993	5420	166	44	0	30209
Sturgeon, white.....	0	66868	19843	0	0	477	0	60677	85660	31039	11957	0	276521
<b>TOTAL</b>	<b>1220</b>	<b>569853</b>	<b>301635</b>	<b>10006</b>	<b>17818</b>	<b>94581</b>	<b>0</b>	<b>2536807</b>	<b>9208035</b>	<b>1778419</b>	<b>99062</b>	<b>0</b>	<b>14617436</b>
<u>ABOVE BONNEVILLE DAM</u>													
FISH:													
Salmon, chinook.....	0	3	3575	0	0	1947	6411	685714	2033624	3065	0	0	2734339
Salmon, coho.....	0	0	0	0	0	0	0	1215	22152	0	0	0	23367
Salmon, sockeye.....	0	0	0	0	0	29006	38492	798	62	0	0	0	68358
Shad, American.....	0	0	0	0	0	923	1079	46	0	0	0	0	2048
Steelhead.....	0	5104	4519	0	0	11212	19708	104797	236206	1190	0	0	382736
Sturgeon, white.....	322	15194	37131	8707	0	2206	3028	71582	3768	0	0	0	141938
<b>TOTAL</b>	<b>322</b>	<b>20301</b>	<b>45225</b>	<b>8707</b>	<b>0</b>	<b>45294</b>	<b>68718</b>	<b>664152</b>	<b>2295812</b>	<b>4255</b>	<b>0</b>	<b>0</b>	<b>3352786</b>
<b>TOTAL</b>	<b>1542</b>	<b>590154</b>	<b>346860</b>	<b>18713</b>	<b>17818</b>	<b>139875</b>	<b>68718</b>	<b>3400959</b>	<b>11503847</b>	<b>1782674</b>	<b>99062</b>	<b>0</b>	<b>17970222</b>

1/ OREGON LANDINGS ONLY



TABLE 45. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT ASTORIA, 1988. 1/ 2/

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cod, Pacific.....	8783	6833	12418	55737	44077	41020	54796	80658	41109	27047	1054	23357	396889
Flounder, arrowtooth..	12053	4932	8379	15938	19323	17170	13713	13448	5169	7366	970	9316	127777
Flounder, starry.....	0	314	220	8080	14952	5002	32815	15634	3609	6620	0	0	87246
Hake, Pac. (Whiting)..	0	0	0	0	0	94	0	911	352	0	0	0	1357
Halibut, Pacific.....	0	0	0	0	0	0	33637	65758	170012	172875	0	0	442282
Lingcod.....	7377	15694	3079	8669	27522	31080	50211	37738	46199	65461	1309	16446	310785
Opah.....	0	0	0	0	0	0	0	0	80	0	0	0	80
Pac. Oc. Perch.....	18636	17644	23635	15612	26048	34029	35056	24894	13957	36820	2816	29191	278338
Nominal POP.....	1029	1140	8633	10843	1368	13642	6511	7578	2561	11213	0	2464	66982
Rockfish, widow.....	237754	148438	122336	132543	79767	30010	43330	131805	71900	10940	490	4672	1013985
Rockfish, yellowtail..	55397	55208	54168	103330	81405	96244	143364	150327	93430	82878	9265	28656	953672
Rkfish, Sebastolobus...	9949	22395	19502	12765	15824	17922	14030	8671	2140	17295	4365	36575	181433
Rockfish, other spp...	67522	80068	55236	100337	126715	185224	161459	130215	80989	101593	10897	94340	1194595
Sablefish.....	44708	74358	46861	69361	78254	123611	178963	107303	31374	35666	4668	45251	840378
Salmon, chinook.....	0	0	0	0	49507	22769	21466	5804	7315	2318	0	0	109179
Salmon, coho.....	0	0	0	0	0	0	16879	10648	0	0	0	0	27527
Sanddab, Pacific.....	1780	3247	7760	10216	2216	932	2206	1695	3173	5235	96	450	39006
Shark, soupfin.....	32	73	0	0	0	270	277	287	81	207	0	15	1242
Shark, spiny dogfish..	141	0	0	0	0	0	0	0	0	4	0	0	145
Shark, thresher.....	0	0	0	105	0	0	0	82125	29475	23179	0	0	134884
Skates and rays.....	0	0	0	244	0	0	89	0	0	0	10	0	343
Sole, Dover.....	119956	183547	260964	211486	157228	125589	111430	119296	119601	141548	33661	303069	1887375
Sole, English.....	11806	7600	5553	16666	14184	21457	27822	28735	23246	47096	296	6734	211195
Sole, flathead.....	0	272	0	0	0	24	37	247	0	6126	0	0	6706
Sole, petrale.....	143597	102464	31726	40251	50634	45004	29776	28555	30489	47245	9376	125753	684870
Sole, rex.....	3699	11933	8093	16675	16768	22020	15242	18929	22190	34436	569	8048	178602
Sole, rock.....	0	0	0	0	0	214	0	0	0	0	0	0	214
Sole, sand.....	71	220	3215	21853	8296	13529	63307	45616	20325	11422	0	0	167854
Sturgeon, green.....	0	0	0	99	96	19	207	593	187	68	0	0	1269

TABLE 45. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT ASTORIA, 1988. 1/ 2/

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Sturgeon, white.....	0	0	0	40	0	0	33	2451	1609	0	0	0	4133
Tuna, albacore.....	0	0	0	0	0	0	0	290096	152014	23376	0	0	465486
Tuna, other.....	0	0	0	0	0	0	0	65	0	0	0	0	65
Wolf-eel.....	0	8	19	74	144	14	86	9	5	3	0	0	362
CRUSTACEANS:													
Crab, Dungeness, Oc...	825371	399663	290286	281358	287635	63156	30988	9789	0	0	0	980302	3168548
Shrimp, pink.....	0	0	0	361547	507561	967200	820190	799447	439990	598820	0	0	4494755
MOLLUSKS:													
Octopus.....	83	37	338	939	841	389	561	508	300	171	30	77	4274
TOTAL	1569744	1136088	962421	1494768	1610365	1877634	1908481	2219835	1412881	1517028	79872	1714716	17503933

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, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
MOLLUSKS:													
Clams, razor.....	549	3102	9101	10768	20417	17204	1611	0	4106	8150	2015	9808	86831
TOTAL	549	3102	9101	10768	20417	17204	1611	0	4106	8150	2015	9808	86831

TABLE 45B. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT CANNON BEACH, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Salmon, chinook.....	0	0	0	0	641	0	2528	1721	362	0	0	0	5252
Salmon, coho.....	0	0	0	0	0	0	8071	3809	0	0	0	0	11880
TOTAL	0	0	0	0	641	0	10599	5530	362	0	0	0	17132

TABLE 46. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT NEHALEM BAY, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
CRUSTACEANS:													
Shrimp, ghost.....	0	0	472	329	945	1230	674	135	539	346	218	55	4943
TOTAL	0	0	472	329	945	1230	674	135	539	346	218	55	4943

TABLE 47. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT GARIBALDI, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Anchovy, northern.....	0	0	0	0	0	0	0	13	0	0	0	0	13
Cabezon.....	0	0	0	0	20	127	31	0	0	0	0	0	178
Cod, Pacific.....	5450	1246	408	1364	5133	3495	3080	4355	3203	2596	1	2033	32364
Flounder, arrowtooth..	2232	3868	445	3946	1404	653	1310	1974	685	333	3	653	17506
Flounder, starry.....	0	0	21	0	0	2	0	7	0	38	0	0	68
Hake, Pac. (Whiting)..	0	0	0	3533	0	0	1165	2	0	0	0	0	4700
Halibut, Pacific.....	0	0	0	0	0	0	1094	0	32472	0	0	0	33566
Lingcod.....	32826	14825	13949	853	3533	3283	3540	4346	3575	2342	1	9805	92878
Mackerel.....	0	0	0	0	0	0	70	17	0	0	0	0	87
Pac. Oc. Perch.....	170	1501	1013	587	0	209	2849	99	138	260	0	375	7201
Nominal POP.....	23180	12466	6473	13564	11073	18894	12819	20035	13753	8089	26	13465	153839
Rockfish, widow.....	977	27917	27090	5869	4533	6797	8463	1327	24706	82	0	667	108428
Rockfish, yellowtail..	0	2614	34317	4325	5669	4005	5897	846	6133	1416	9	2676	67907
Rkfsh, Sebastolobus...	2455	2668	1274	2487	1301	515	1871	2224	1316	390	0	1027	17528
Rockfish, other spp...	18812	12808	25202	15423	11950	15551	8290	15097	13450	2738	1	6015	145337
Sablefish.....	7134	8728	1812	13984	5884	5073	15915	10404	7210	5147	0	2671	83962
Salmon, chinook.....	0	0	0	0	19901	150363	143724	214752	138918	177233	0	0	844891
Salmon, chum.....	0	0	0	0	0	0	0	26	0	15	0	0	41
Salmon, coho.....	0	0	0	0	0	0	580516	376961	0	0	0	0	957479
Salmon, pink.....	0	0	0	0	0	0	2	0	0	0	0	0	2
Sanddab, Pacific.....	0	0	0	0	0	0	0	0	368	60	0	0	428
Shad, American.....	0	0	0	0	0	0	0	0	0	6	0	0	6
Shark, soupfin.....	0	0	0	0	0	0	71	0	0	0	0	0	71
Sole, Dover.....	9729	11271	8110	44368	15705	8889	24190	23155	11404	12028	2	11668	180519
Sole, English.....	541	342	263	579	910	903	1628	1451	1433	1527	6	351	9934
Sole, flathead.....	637	0	0	0	0	0	0	0	558	45	0	0	1240
Sole, petrale.....	20984	5283	4216	2265	1706	3779	3694	6935	5101	4030	7	4476	62476
Sole, rex.....	1592	2979	929	1422	1320	1997	1642	1035	567	1145	6	668	15302
Sole, rock.....	0	0	0	0	0	0	1318	0	0	0	0	0	1318

TABLE 47. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT GARIBALDI, 1988.

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Sole, sand.....	0	0	0	0	0	50	0	59	0	386	0	0	495
Tuna, albacore.....	0	0	0	0	0	0	0	17914	653	0	0	0	18567
Wolf-eel.....	0	0	0	0	0	13	13	0	0	0	0	0	26
CRUSTACEANS:													
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	70	0	98	0	168
Crab, Dungeness, Oc...	86732	84703	54698	36805	53028	26210	18672	4518	0	0	0	130356	495722
Shrimp, ghost.....	145	200	314	383	877	924	961	1105	709	560	164	130	6472
Shrimp, mud.....	6453	5770	1978	1262	832	832	1016	856	518	1638	3146	5229	29530
Shrimp, pink.....	0	0	0	75743	309057	316476	113424	208957	219382	178649	0	0	1421688
MOLLUSKS:													
Clams, butter.....	0	64	102	160	72	60	30	19	0	0	0	0	507
Clams, cockle.....	0	466	102	4781	2002	0	0	1392	120	270	0	1388	11021
Clams, gaper.....	0	0	0	0	0	0	0	28	0	0	0	330	358
Clams, littleneck.....	0	25	145	261	510	1040	2205	1911	372	1097	239	121	7926
Mussels, ocean.....	480	729	832	704	756	0	0	0	0	0	0	0	3501
Octopus.....	26	0	0	26	14	0	19	89	110	52	0	0	336
Squid.....	0	0	0	0	0	0	0	0	0	1	0	0	1
OTHER INVERTEBRATES:													
TOTAL	220555	200475	183693	234694	457190	570140	959521	922409	486924	402173	3709	194104	4835587

TABLE 48. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT NETARTS BAY, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DÉCEMBER	TOTAL
<b>FISH:</b>													
Lingcod.....	0	0	0	0	0	0	26	5	0	0	0	0	31
Rockfish, other spp...	0	0	0	0	0	0	31	16	0	0	0	0	47
Salmon, chinook.....	0	0	0	0	0	0	880	1851	1793	4482	0	0	9006
Salmon, coho.....	0	0	0	0	0	0	9101	4643	0	0	0	0	13744
<b>CRUSTACEANS:</b>													
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	0	193	0	0	193
Shrimp, ghost.....	0	0	0	0	0	0	0	0	0	0	0	68	68
Shrimp, mud.....	8393	6087	2642	1337	645	378	0	0	1176	1527	3258	5935	31378
<b>MOLLUSKS:</b>													
Mussels, ocean.....	0	0	0	0	0	720	960	0	440	800	0	600	3520
<b>TOTAL</b>	<b>8393</b>	<b>6087</b>	<b>2642</b>	<b>1337</b>	<b>645</b>	<b>1098</b>	<b>10998</b>	<b>6515</b>	<b>3409</b>	<b>7002</b>	<b>3258</b>	<b>6603</b>	<b>57987</b>

TABLE 49. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT PACIFIC CITY, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	0	23	27	16	17	6	5	24	19	0	0	0	137
Halibut, Pacific.....	0	0	0	0	0	0	53	0	0	0	0	0	53
Lingcod.....	0	673	954	952	984	896	500	774	283	319	0	0	6335
Mackerel.....	0	0	0	0	0	0	6	0	0	0	0	0	6
Rockfish, widow.....	0	0	0	28	0	0	0	0	0	0	0	0	28
Rockfish, other spp...	0	124	144	2015	5432	4859	1642	2676	1154	163	0	0	18209
Salmon, chinook.....	0	0	0	0	715	9926	65938	84310	86063	49749	0	0	296701
Salmon, chum.....	0	0	0	0	0	0	98	39	0	0	0	0	137
Salmon, coho.....	0	0	0	0	0	0	499243	244016	0	0	0	0	743259
Wolf-eel.....	0	0	0	0	0	12	0	0	0	0	0	0	12
CRUSTACEANS:													
Crab, Dungeness, Oc...	0	0	130	0	0	120	62	32	0	0	0	0	344
Shrimp, ghost.....	1155	925	1160	247	310	1128	437	1119	1450	690	196	249	9066
TOTAL	1155	1745	2415	3258	7458	16947	567984	332990	88969	50921	196	249	1074287

TABLE 50. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT SILETZ BAY, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
CRUSTACEANS:													
Shrimp, ghost.....	83	80	100	109	98	88	179	163	266	278	59	67	1570
TOTAL	83	80	100	109	98	88	179	163	266	278	59	67	1570

TABLE 51. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT DEPOE BAY, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<b>FISH:</b>													
Cabezon.....	322	422	432	1072	325	849	640	110	20	286	0	172	4650
Halibut, Pacific.....	0	0	0	0	0	0	1264	0	0	0	0	0	1264
Herring, Pacific.....	9	0	0	0	0	0	0	0	0	0	0	0	9
Lingcod.....	1577	2364	942	2003	786	533	1060	285	140	1253	0	281	11224
Mackerel.....	0	0	0	0	0	0	5	0	0	0	0	0	5
Rockfish, other spp....	311	1371	835	2746	3960	2802	3182	3109	1993	1795	0	230	22334
Salmon, chinook.....	0	0	0	0	9583	6918	28992	34109	10322	7887	0	0	97811
Salmon, chum.....	0	0	0	0	0	0	42	0	0	0	0	0	42
Salmon, coho.....	0	0	0	0	0	0	109436	117988	0	0	0	0	227424
Shark, soupfin.....	25	0	0	0	0	0	0	0	0	0	0	0	25
Sole, English.....	16	0	0	0	0	0	0	0	0	0	0	0	16
Sole, petrale.....	53	0	0	0	0	0	0	0	0	0	0	0	53
Tuna, albacore.....	0	0	0	0	0	0	0	0	940	0	0	0	940
Wolf-eel.....	0	2	11	123	84	0	0	0	0	36	0	0	256
<b>CRUSTACEANS:</b>													
Crab, Dungeness, Oc...	33669	35691	22873	12133	731	760	42	109	0	0	0	73287	179295
<b>MOLLUSKS:</b>													
Mussels, ocean.....	0	0	0	0	0	100	0	0	0	0	0	0	100
Octopus.....	57	0	0	0	34	0	0	0	0	0	0	43	134
Scallops, weathervane	62	0	0	0	0	0	0	0	0	0	0	0	62
<b>OTHER INVERTEBRATES:</b>													
Sea urchins, red.....	0	0	210	1407	902	0	0	0	0	0	0	0	2519
<b>TOTAL</b>	<b>36101</b>	<b>39850</b>	<b>25303</b>	<b>19484</b>	<b>16405</b>	<b>11962</b>	<b>144663</b>	<b>155710</b>	<b>13415</b>	<b>11257</b>	<b>0</b>	<b>74013</b>	<b>548163</b>



TABLE 52. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT NEWPORT, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	62	83	6	23	16	55	712	77	24	2	7	7	1074
Cod, Pacific.....	879	4612	1238	11241	7233	15826	29467	13711	21697	46694	6	1750	154354
Flounder, arrowtooth..	2095	3358	4674	1587	3874	1872	478	1053	1092	734	0	172	20989
Flounder, starry.....	17	347	5	228	953	1628	520	548	855	158	58	1072	6389
Greenling.....	3	6	4	7	1	0	2	1	4	0	1	0	29
Hagfish.....	0	0	0	0	0	0	0	0	0	3599	5425	0	9024
Hake, Pac. (Whiting)..	0	0	0	2663	2232	4390	6313	600	3048	9311	0	4867	33424
Halibut, Pacific.....	0	0	0	0	0	0	273732	0	0	0	0	0	273732
Herring, Pacific.....	0	185093	383	48539	0	0	10	6	1	0	0	0	234032
Lingcod.....	3667	4173	12160	13943	13575	15945	16593	10052	8137	11519	1527	7378	118569
Mackerel.....	0	0	0	0	0	0	194	33	1	3	0	0	231
Ratfish.....	0	0	1	0	0	1	0	1	0	0	0	0	3
Pac. Oc. Perch.....	4246	12107	11455	15794	11209	7241	3377	12253	8820	6119	2227	9204	104052
Nominal POP.....	31963	54320	22605	43427	81891	25523	3906	19186	19332	10835	6002	58847	377837
Rockfish, widow.....	336093	224220	306616	268685	144452	90332	47354	139032	100452	8597	2293	36179	1704305
Rockfish, yellowtail..	19740	10147	19312	17197	23918	10477	11776	16821	6795	18203	1752	13769	169907
Rkfsh, Sebastolobus...	3086	15315	8921	7367	2998	4305	2845	3148	3113	6460	1206	14718	73482
Rockfish, other spp...	40388	83489	74326	99847	71771	119549	58593	93823	54562	69529	14557	51191	831625
Sablefish.....	11883	53380	135446	186289	204898	239922	344007	297798	13752	17186	2229	22986	1549776
Salmon, chinook.....	0	0	0	0	206295	587318	1267490	1156451	267616	446284	0	0	3931454
Salmon, chum.....	0	0	0	0	132	127	56	0	0	0	0	0	315
Salmon, coho.....	0	0	0	0	0	0	1493687	1451808	0	0	0	0	2945495
Salmon, pink.....	0	0	0	0	0	0	6	0	0	0	0	0	6
Sanddab, Pacific.....	3697	3473	4510	5633	806	0	0	140	815	693	23	3427	23217
Irish Lord, Red.....	1	0	0	0	0	0	0	0	0	0	0	0	1
Sculpin, Buffalo.....	0	1	1	0	0	0	0	0	0	0	0	0	2
Shad, American.....	0	0	0	0	3	0	0	0	0	0	0	0	3
Shark, soupfin.....	35	58	0	6	59	45	115	60	0	95	0	0	473
Shark, spiny dogfish..	0	27	1	0	0	0	7	0	0	0	0	8	43

TABLE 52. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT NEWPORT, 1988.

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
States and rays.....	0	105	129	53	0	0	1	0	109	117	0	359	873
Sole, butter.....	0	104	0	0	0	0	0	0	0	0	0	0	104
Sole, curlfin (turbot)	70	196	13	34	17	526	71	0	0	0	0	0	927
Sole, Dover.....	31293	75765	24881	17038	43943	33521	16589	44088	18122	30415	7346	66878	409879
Sole, English.....	4659	6184	13476	11804	5241	9837	7623	20681	18043	20444	532	6198	124722
Sole, petrale.....	50331	49362	19488	18821	7940	18801	29773	27403	37167	30600	2040	18733	310459
Sole, rex.....	4416	6013	4025	1910	1766	973	572	4663	3082	2190	275	3405	33290
Sole, rock.....	16	67	10	42	102	1086	118	0	0	0	0	0	1441
Sole, sand.....	169	1210	1	92	5780	15900	1696	760	919	1376	1055	1422	30380
Sturgeon, green.....	0	203	0	0	255	149	0	15	0	59	0	19	700
Sunfish, ocean.....	0	0	0	0	0	0	0	5	0	0	0	0	5
Surfperch.....	5	4	1	8	2	28	459	1	21	2	1	0	532
Tuna, albacore.....	0	0	0	0	0	0	4025	1444464	392414	45071	0	0	1885974
Wolf-eel.....	1	7	10	15	46	58	23	5	10	1	0	0	176
Wrymouth.....	0	0	0	0	0	0	0	2	0	0	0	0	2
Miscellaneous.....	0	309	129	0	0	0	0	2	0	0	0	4	444
CRUSTACEANS:													
Barnacle, Gooseneck...	0	0	0	0	0	0	0	0	0	8	0	0	8
Crab, Dungeness, Bay..	9	6	0	0	0	0	0	0	148	366	56	0	585
Crab, Dungeness, Oc...	636402	229135	111369	70987	73745	36408	35988	16559	0	0	0	2360272	3570865
Crab, rock.....	334	936	1401	1422	1383	134	525	387	505	106	378	261	7772
Shrimp, ghost.....	0	958	863	95	0	0	0	0	0	0	0	0	1916
Shrimp, pink.....	0	0	0	503710	754773	926763	632314	871583	1032543	842238	0	0	5563924
MOLLUSKS:													
Clams, gaper.....	0	0	0	0	0	0	56	88	0	0	0	0	144
Clams, softshell.....	0	0	0	35	0	155	0	0	0	0	0	0	190
Mussels, ocean.....	0	26	65	0	0	0	0	113	0	50	0	0	254
Octopus.....	265	542	343	432	262	554	275	535	505	426	0	728	4867
Scallops, weathervane	0	0	0	0	0	0	0	0	0	0	0	11955	11955

TABLE 52. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT NEWPORT, 1988.

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
OTHER INVERTEBRATES:													
Sea urchins, red.....	0	0	0	0	5	0	0	0	313	0	0	0	318
<b>TOTAL</b>	<b>1185825</b>	<b>1025341</b>	<b>777868</b>	<b>1348874</b>	<b>1671576</b>	<b>2169449</b>	<b>4311348</b>	<b>5647956</b>	<b>2014017</b>	<b>1629490</b>	<b>48996</b>	<b>2695809</b>	<b>24526549</b>

TABLE 53. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT WALDPOR, 1988.

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	7610	7485	1090	26	16211
Shrimp, ghost.....	6544	2835	2371	2916	4472	6066	4307	3856	4304	7565	2294	9670	57200
Shrimp, mud.....	0	170	74	63	7	24	164	20	0	12	101	860	1495
MOLLUSKS:													
Clams, softshell.....	1	8	12	10	2	0	0	0	0	0	0	0	33
Mussels, ocean.....	0	35	383	11	0	0	0	112	0	0	0	0	541
<b>TOTAL</b>	<b>6545</b>	<b>3048</b>	<b>2840</b>	<b>3000</b>	<b>4481</b>	<b>6090</b>	<b>4471</b>	<b>3988</b>	<b>11914</b>	<b>15062</b>	<b>3485</b>	<b>10556</b>	<b>75480</b>

TABLE 54. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT FLORENCE, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<b>FISH:</b>													
Grenadier.....	0	0	0	65	20	111	80	0	0	0	0	0	276
Hake, Pac. (Whiting)...	0	0	0	0	0	0	0	174	0	0	0	0	174
Halibut, Pacific.....	0	0	0	0	0	0	144	0	0	0	0	0	144
Lingcod.....	0	0	0	0	16	63	19	71	5	0	0	0	174
Rockfish, widow.....	0	0	0	0	0	0	0	0	25	0	0	0	25
Rockfish, other spp....	0	0	0	0	25	82	266	371	168	7	0	0	919
Sablefish.....	0	0	985	12732	36947	178589	103843	75692	0	0	0	0	408768
Salmon, chinook.....	0	0	0	0	82512	175370	213628	267955	10926	8231	0	0	758622
Salmon, chum.....	0	0	0	0	0	166	12	0	0	0	0	0	178
Salmon, coho.....	0	0	0	0	0	40	275206	218484	0	0	0	0	493730
Sanddab, Pacific.....	0	0	0	0	0	15	0	0	0	0	0	0	15
Shad, American.....	0	0	0	0	1647	7518	405	0	0	0	0	0	9570
Sole, Dover.....	0	0	0	0	83	4	0	0	0	0	0	0	87
Sole, sand.....	0	0	0	0	2	0	0	0	0	0	0	0	2
Tuna, albacore.....	0	0	0	0	0	0	0	21446	5852	0	0	0	27298
Wolf-eel.....	0	0	0	0	6	0	0	0	0	0	0	0	6
<b>CRUSTACEANS:</b>													
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	4369	7874	3947	0	16190
Crab, Dungeness, Oc...	78242	68763	23417	22168	11837	9735	6759	8625	0	0	0	254352	483898
<b>MOLLUSKS:</b>													
Clams, gaper.....	0	0	0	0	0	0	0	50	62	90	0	0	202
Clams, softshell.....	0	0	0	0	0	0	22	42	0	0	0	0	64
Mussels, ocean.....	0	0	0	403	388	120	0	75	0	0	0	0	986
Octopus.....	0	0	0	26	35	0	0	9	0	0	0	0	70
<b>TOTAL</b>	<b>78242</b>	<b>68763</b>	<b>24402</b>	<b>35394</b>	<b>133518</b>	<b>371813</b>	<b>600384</b>	<b>592994</b>	<b>21407</b>	<b>16202</b>	<b>3947</b>	<b>254352</b>	<b>2201418</b>

TABLE 55. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT WINCHESTER BAY, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<b>FISH:</b>													
Cod, Pacific.....	0	0	0	0	90	0	0	0	0	0	0	59	149
Flounder, arrowtooth..	0	0	0	0	0	0	23	0	0	0	0	0	23
Flounder, starry.....	0	0	0	0	0	0	120	0	0	0	0	0	120
Halibut, Pacific.....	0	0	0	0	0	0	45406	0	0	0	0	0	45406
Lingcod.....	0	0	0	0	43	69	797	80	151	223	0	110	1473
Nominal POP.....	0	0	0	0	17	0	0	0	0	0	0	0	17
Rockfish, widow.....	0	0	0	0	0	0	135	0	0	0	0	0	135
Rkfsh, Sebastolobus...	0	0	0	0	99	0	214	478	0	0	0	0	791
Rockfish, other spp....	0	0	0	33	384	210	3509	563	131	72	0	24	4926
Sablefish.....	0	0	0	5808	2598	80817	104537	109752	0	0	0	0	303512
Salmon, chinook.....	0	0	0	0	107070	228703	225325	341311	8161	7234	56	0	917860
Salmon, chum.....	0	0	0	0	70	58	0	0	0	0	0	0	128
Salmon, coho.....	0	0	0	0	0	70	402052	178173	0	0	0	0	580295
Shad, American.....	0	0	0	0	13851	14237	848	0	0	0	0	0	28936
Sole, Dover.....	0	0	0	16	1701	0	522	0	0	0	0	0	2239
Sole, English.....	0	0	0	0	3	0	0	0	0	0	0	0	3
Sole, petrale.....	0	0	0	0	43	0	167	0	0	0	0	0	210
Sole, sand.....	0	0	0	0	0	0	100	0	0	0	0	0	100
Sturgeon, white.....	0	0	0	0	0	0	70	0	0	0	0	0	70
Tuna, albacore.....	0	0	0	0	0	0	0	88062	29091	0	0	0	117153
Wrymouth.....	0	0	0	0	1	0	0	0	0	0	0	0	1
<b>CRUSTACEANS:</b>													
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	4589	2311	353	0	7253
Crab, Dungeness, Oc...	143352	101164	44120	31508	27949	12046	46139	30034	0	0	0	416221	852533
Shrimp, ghost.....	0	0	5	0	0	64	112	29	0	0	0	0	210
Shrimp, pink.....	0	0	0	2712	6354	3166	0	0	0	5968	0	0	18200
<b>MOLLUSKS:</b>													
Clams, cockle.....	0	7	0	0	0	0	0	0	0	0	0	0	7

TABLE 55. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT WINCHESTER BAY, 1988. (CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Clams, softshell.....	0	0	0	0	0	0	14	0	0	0	0	0	14
Mussels, ocean.....	1289	810	1572	891	833	851	1523	611	402	970	330	590	10672
<b>TOTAL</b>	<b>144641</b>	<b>101931</b>	<b>45697</b>	<b>40968</b>	<b>161106</b>	<b>340291</b>	<b>831613</b>	<b>749093</b>	<b>42525</b>	<b>16778</b>	<b>739</b>	<b>417004</b>	<b>2892436</b>

TABLE 56. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT CHARLESTON, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabazon.....	0	5	8	27	0	0	1	0	0	0	0	16	57
Cod, Pacific.....	3982	1765	1533	2035	2181	4333	3757	5459	4879	4319	235	2483	36961
Flounder, arrowtooth..	951	1490	1371	1317	3158	3262	1257	1025	2225	804	9	555	17424
Flounder, starry.....	55	43	9	642	1507	572	99	679	524	18	0	0	4148
Grenadier.....	0	0	0	0	0	0	19	0	0	0	0	0	19
Hake, Pac. (Whiting)..	0	0	0	902	0	6	2	372	246	0	0	0	1528
Halibut, Pacific.....	0	0	0	0	0	0	68198	0	0	0	0	0	68198
Lingcod.....	3395	20357	14535	19028	10600	7723	9008	13198	20972	21109	2765	10806	153496
Mackerel.....	0	0	0	0	0	0	17	17	2	0	0	0	36
Pac. Oc. Perch.....	303	3579	4369	1368	354	821	2778	0	700	2929	36	2698	19935
Nominal POP.....	26088	16491	18636	11454	9095	14496	12668	9904	12664	22275	1456	12213	167440
Rockfish, widow.....	44013	73321	71209	1312	281	7704	11047	64645	13741	5009	0	8640	300922
Rockfish, yellowtail..	18480	6395	12980	985	329	1259	6551	13061	12200	47476	10783	52340	182839
Rkfsh, Sebastolobus...	36171	58897	46912	19569	9622	8736	16440	9713	13074	20804	5527	26207	271672
Rockfish, other spp...	31031	41416	67455	25579	32404	41488	37958	54451	54732	59363	17744	60004	523625
Sablefish.....	56560	80342	81539	98186	110112	169303	99032	62997	20923	38068	11793	43168	872023
Salmon, chinook.....	0	0	0	0	522698	771150	846418	1609653	397467	540037	326	0	4687749
Salmon, chum.....	0	0	0	0	275	376	32	0	0	43	0	0	726
Salmon, coho.....	0	0	0	0	0	902	715889	545265	0	0	0	0	1262056
Salmon, pink.....	0	0	0	0	0	2	0	0	0	0	0	0	2
Sanddab, Pacific.....	6731	3672	951	1068	1189	983	260	0	357	0	0	471	15682
Shad, American.....	0	0	0	4	0	0	0	0	0	0	0	0	4
Shark, soupfin.....	491	0	43	0	0	0	0	0	114	84	0	0	732
Shark, spiny dogfish..	0	3	0	0	0	0	0	0	0	0	0	0	3
Shark, other.....	0	31	0	0	0	0	0	8	0	0	0	0	39
Skates and rays.....	8	21	0	0	132	0	0	50	31	0	0	0	242
Sole, butter.....	0	0	0	0	0	69	0	0	0	0	0	0	69
Sole, curlfin (turbot)	93	36	151	230	260	2	0	55	36	0	0	0	863
Sole, Dover.....	303918	580409	413705	205837	67509	77484	89023	117700	149142	174249	60901	194690	2434567

TABLE 56. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT CHARLESTON, 1988.

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Sole, English.....	26084	8776	18276	10943	5722	3236	6407	10485	10071	11549	3726	7970	123245
Sole, petrale.....	186769	75062	36950	7939	2085	1626	4301	6440	8198	13686	33494	161343	537893
Sole, rex.....	5378	8372	5189	5578	1963	1203	3063	851	322	1096	100	3057	36172
Sole, rock.....	0	0	10	8	0	0	31	0	0	0	0	0	49
Sole, sand.....	0	241	181	1199	3759	1468	630	16926	6935	726	0	0	32065
Sturgeon, green.....	64	0	36	0	0	0	0	0	0	0	0	0	100
Sturgeon, white.....	0	0	0	28	447	735	0	0	195	0	0	0	1405
Surfperch.....	0	10	0	0	0	0	0	0	0	0	0	0	10
Tuna, albacore.....	0	0	0	0	0	0	0	728219	57430	10405	0	0	796054
Wolf-eel.....	0	1	4	43	82	0	3	5	0	0	0	0	138
Wrymouth.....	0	0	0	9	15	12	3	3	9	4	0	0	55
CRUSTACEANS:													
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	1907	9292	9182	2351	22732
Crab, Dungeness, Oc...	180452	104023	31984	30495	22276	15916	19596	11301	0	0	0	532457	948500
Crab, mole.....	0	0	0	0	12	0	0	0	0	0	0	0	12
Shrimp, ghost.....	29	532	1339	504	530	914	891	484	405	1674	650	641	8593
Shrimp, mud.....	0	2922	853	4	2	0	0	0	0	0	14	0	3795
Shrimp, pink.....	0	0	0	449922	439241	682304	509201	763478	700141	759299	0	0	4303586
MOLLUSKS:													
Clams, butter.....	97	168	306	279	114	0	53	0	7	0	0	18	1042
Clams, cockle.....	0	750	81	3	213	0	0	0	0	0	0	0	1047
Clams, gaper.....	0	0	0	0	0	0	185	91	53	77	0	66	472
Clams, littleneck.....	0	0	0	0	0	0	23	197	68	5	0	0	293
Clams, softshell.....	0	0	0	0	0	0	0	5	0	0	0	0	5
Mussels, ocean.....	0	75	119	0	0	0	37	0	0	30	0	0	261
Octopus.....	323	522	171	150	145	280	365	679	801	95	0	67	3798
OTHER INVERTEBRATES:													
Sea urchins, red.....	0	27	0	753	12034	22568	6805	0	2659	1513	0	0	46359
Worms, tube.....	0	0	62	10	161	42	39	0	0	0	0	0	314
TOTAL	931466	1089754	630967	697410	1260507	1840975	2472087	4047616	1493230	1746038	158741	1122261	17891052



TABLE 57. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT BANDON, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Halibut, Pacific.....	0	0	0	0	0	0	0	322	0	0	0	0	322
Lingcod.....	0	0	0	0	16	7	8	0	0	0	0	0	31
Rockfish, other spp....	0	0	0	0	425	837	250	1321	59	340	0	0	3232
Sablefish.....	0	0	0	0	12821	49131	9400	31618	0	0	0	0	102970
Salmon, chinook.....	0	0	0	0	81102	109089	43011	250150	7926	46486	0	0	537764
Salmon, coho.....	0	0	0	0	0	332	23941	107530	0	0	0	0	131803
Tuna, albacore.....	0	0	0	0	0	0	0	0	4339	0	0	0	4339
CRUSTACEANS:													
Crab, Dungeness, Oc...	0	509	9920	0	193	375	178	178	0	0	0	5552	16905
MOLLUSKS:													
Clams, softshell.....	0	65	156	25	0	0	0	0	2	0	0	0	248
TOTAL	0	574	10076	25	94557	159771	76788	391119	12326	46826	0	5552	797614

TABLE 58. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT PORT ORFORD, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<b>FISH:</b>													
Cabezon.....	61	282	126	71	172	121	41	1	20	16	3	96	1010
Flounder, arrowtooth..	0	0	2	0	0	2	1	2	0	0	0	0	7
Greenling.....	0	0	0	0	0	92	0	0	0	0	0	0	92
Halibut, Pacific.....	0	0	0	0	0	0	8879	0	0	0	0	0	8879
Lingcod.....	3485	8526	8929	5167	1070	2204	1078	1465	1699	2529	43	664	36859
Rockfish, widow.....	0	0	0	0	0	0	0	0	0	50	0	0	50
Rockfish, yellowtail..	15	0	0	0	0	0	0	0	0	0	0	0	15
Rockfish, other spp...	2465	8161	4781	6380	3846	5548	3910	4221	2978	3295	424	751	46760
Sablefish.....	749	1063	2175	1043	2674	15026	13505	13190	0	0	0	0	49425
Salmon, chinook.....	0	0	0	0	116099	160577	43356	346044	5141	213369	108978	0	993564
Salmon, chum.....	0	0	0	0	74	0	0	0	0	0	0	0	74
Salmon, coho.....	0	0	0	0	0	1326	15595	172921	0	0	0	0	189842
Skates and rays.....	0	3	0	0	0	0	0	0	0	0	0	0	3
Sole, Dover.....	0	0	0	0	0	106	0	0	0	0	0	0	106
Sole, petrale.....	0	0	0	0	1	0	0	0	0	0	0	0	1
Wolf-eel.....	2	4	4	14	21	3	0	0	0	1	0	0	49
<b>CRUSTACEANS:</b>													
Crab, Dungeness, Oc...	57679	68063	14714	6955	2867	774	486	294	0	0	0	36550	188382
Crab, mole.....	0	0	0	0	4	0	0	0	0	0	0	0	4
Shrimp, pink.....	0	0	0	0	0	13925	15216	20664	6549	0	0	0	56354
<b>MOLLUSKS:</b>													
Mussels, ocean.....	0	0	71	169	0	0	0	0	0	0	0	0	240
Octopus.....	3030	2483	1094	1133	144	21	12	15	0	0	0	308	8240
<b>OTHER INVERTEBRATES:</b>													
Sea urchins, red.....	4484	13697	7754	10529	23774	36260	52249	72365	96507	23518	9546	90589	441272
<b>TOTAL</b>	<b>71970</b>	<b>102282</b>	<b>39650</b>	<b>31461</b>	<b>150746</b>	<b>235985</b>	<b>154328</b>	<b>631182</b>	<b>112894</b>	<b>242778</b>	<b>118994</b>	<b>128958</b>	<b>2021228</b>

TABLE 59. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT GOLD BEACH, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Lingcod.....	0	0	0	0	0	29	0	0	100	0	0	0	129
Rockfish, other spp...	0	0	0	0	0	10	0	11	105	0	0	0	126
Salmon, chinook.....	0	0	0	0	0	0	3352	2839	1862	383	0	0	8436
Salmon, coho.....	0	0	0	0	0	0	1229	2731	0	0	0	0	3960
Tuna, albacore.....	0	0	0	0	0	0	0	975	0	10503	0	0	11478
CRUSTACEANS:													
Crab, mole.....	0	0	0	6	0	0	48	0	0	0	0	0	54
OTHER INVERTEBRATES:													
Sea urchins, red.....	0	0	0	0	0	0	19297	25870	22413	0	0	0	67580
TOTAL	0	0	0	6	0	39	23926	32426	24480	10886	0	0	91763

TABLE 60. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT BROOKINGS, 1988.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	0	0	0	4	0	0	0	0	0	0	0	0	4
Cod, Pacific.....	1764	1345	42	223	125	195	295	183	85	470	107	39	4873
Flounder, arrowtooth..	40	65	33	11	387	139	271	380	250	291	0	146	2013
Flounder, starry.....	0	101	13	21	0	0	0	28	231	30	0	94	518
Grenadier.....	0	0	0	116	890	3010	1032	524	567	859	0	38	7036
Lingcod.....	17226	3503	368	3783	1891	6115	4035	8458	7136	9816	1497	3738	67566
Nominal POP.....	9364	1846	202	3260	1898	2922	2190	5246	2839	6103	606	1428	37904
Rockfish, widow.....	4441	21848	14907	63486	36317	44085	24023	32250	12193	3738	780	0	258068
Rockfish, yellowtail..	0	788	315	658	0	0	775	0	1995	18445	702	0	23678
Rkfish, Sebastolobus...	4102	24506	12742	4639	24618	22487	35821	20402	30504	22546	6726	26097	235190
Rockfish, other spp...	13967	2711	2474	6106	2997	9371	10104	17317	22642	15183	905	3873	107650
Sablefish.....	8141	11895	12180	12795	15192	18278	20512	8347	7440	12911	3377	7929	138997
Salmon, chinook.....	0	0	0	0	204199	505738	52835	40632	4249	3382	0	0	811035
Salmon, chum.....	0	0	0	0	0	133	0	0	0	0	0	0	133
Salmon, coho.....	0	0	0	0	0	14417	4380	8848	0	0	0	0	27645
Sanddab, Pacific.....	34	662	145	74	0	3	34	30	28	0	0	0	1010
Shark, soupfin.....	32	0	0	0	36	59	0	0	0	35	0	46	208
Shark, thresher.....	0	0	0	0	305	0	0	0	0	0	0	0	305
Smelt.....	12	0	0	0	0	0	0	0	0	0	0	0	12
Sole, curlfin (turbot)	0	437	0	0	0	0	0	0	5	0	0	0	442
Sole, Dover.....	13694	45217	28146	22746	23386	15904	27178	32944	25044	37299	7020	23105	301683
Sole, English.....	754	5980	1074	2058	293	185	268	4162	6167	8251	990	1439	31621
Sole, petrale.....	10864	18370	787	646	30	89	257	1432	2508	7680	1620	21732	66015
Sole, rex.....	2706	2394	1083	2588	2774	608	650	1806	1915	3299	446	1606	21875
Sole, sand.....	0	5210	794	611	0	0	0	1606	772	158	0	957	10108
Sturgeon, green.....	0	18	0	0	0	0	0	0	0	0	0	0	18
Sturgeon, white.....	0	0	0	0	192	0	0	0	0	0	0	0	192
Surfperch.....	0	69	608	1866	0	0	0	0	0	0	0	0	2563
Tomcod, Pacific.....	0	31	0	0	0	0	0	0	0	0	0	0	31

TABLE 60. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT BROOKINGS, 1988.

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Miscellaneous.....	0	90	0	0	0	0	0	0	0	0	0	0	90
CRUSTACEANS:													
Crab, Dungeness, Oc...	207429	103168	25879	33874	20154	3998	303	380	0	0	0	913464	1308649
Shrimp, pink.....	0	0	0	165080	94142	259063	128316	272201	172745	199614	0	0	1291161
MOLLUSKS:													
Octopus.....	2115	1454	135	148	125	279	269	433	452	525	119	3509	9563
OTHER INVERTEBRATES:													
Sea urchins, red.....	469	2688	838	0	0	0	0	321	4592	4127	0	0	13035
<b>TOTAL</b>	<b>297154</b>	<b>254416</b>	<b>102765</b>	<b>324793</b>	<b>429951</b>	<b>907078</b>	<b>313548</b>	<b>457930</b>	<b>304359</b>	<b>354762</b>	<b>24895</b>	<b>1009240</b>	<b>4780891</b>

Table 61. Salmon (Numbers and Pounds) harvested by Oregon private hatcheries 1984-1988.

	Chinook Adults	Chinook Jacks	Coho Adults	Coho Jacks <sup>1</sup>	Chum
<b>1984</b>					
Number	3,571	2,728	84,501	30,902	821
Pounds	55,196	8,208	458,235	89,363	7,561
<b>1985</b>					
Number	9,288	25,387	288,481	43,564	3,220
Pounds	118,929	113,878	1,631,704	101,986	21,470
<b>1986</b>					
Number	66,362	8,157	445,103	8,641	769
Pounds	759,610	29,558	2,345,616	15,328	6,796
<b>1987</b>					
Number	36,781	1,894	119,020	1,507	265
Pounds	560,445	6,959	619,786	1,815	1,857
<b>1988</b>					
Number	21,078	3,415	115,768	3,814	2,719
Pounds	363,052	10,526	580,001	4,840	21,838

<sup>1</sup> May include small adults.

Table 62. Pounds of salmon harvest by Oregon private salmon hatcheries 1988<sup>1</sup>

Species	March	April	May	June	July	August	September	October	November	December	January	February	Total
<b>Chinook</b>													
Adult... ---	477	19,218	35,802	17,067	17,390	63,809	164,657	43,924	708	---	---	---	363,052
Jack.... ---	---	47	1,388	1,834	1,328	5,189	721	19	---	---	---	---	10,526
<b>Coho</b>													
Adult... ---	5	---	20	75	3,324	292,037	274,783	9,471	261	25	---	---	580,001
Jack <sup>2</sup> ... ---	79	---	---	1	51	1,131	3,219	271	82	---	6	---	4,840
<b>Chum</b>													
Adult... ---	---	---	3	---	---	---	104	21,588	143	---	---	---	21,838
<b>TOTAL</b>													
Adult... ---	82	19,218	35,825	17,142	20,714	355,846	439,544	74,983	1,112	25	---	---	964,891
Jack.... ---	79	47	1,388	1,835	1,379	6,320	3,940	290	82	---	6	---	15,366

<sup>1</sup> Harvest report from March through February of the following year.  
<sup>2</sup> May include small adults.

TABLE 63. MONTHLY LANDINGS (POUNDS ROUND) OF CARP, CRAYFISH, FRESHWATER MUSSELS, PACIFIC LAMPREY AND BRINE SHRIMP HARVESTED IN OREGON, 1988.

COUNTY/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<b>BAKER</b>													
Crayfish	0	0	0	64	107	9665	22536	6676	11878	9170	0	0	60096
<b>CLACKAMAS</b>													
Crayfish	0	0	0	0	0	1328	4730	3133	5575	1607	0	0	16373
Lamprey, Pacific	0	0	0	0	0	1981	8847	68	0	0	0	0	10896
TOTAL	0	0	0	0	0	3309	13577	3201	5575	1607	0	0	27269
<b>CLATSOP</b>													
Crayfish	0	0	0	73	86	2525	3050	4324	5381	6276	0	0	21715
<b>COLUMBIA</b>													
Crayfish	0	0	0	425	299	1170	3277	3110	771	1765	0	0	10817
<b>CROOK</b>													
Crayfish	0	0	0	0	0	722	1069	94	0	0	0	0	1885
<b>DESCHUTES</b>													
Crayfish	0	0	0	0	0	0	0	0	0	220	0	0	220
<b>HOOD RIVER</b>													
Crayfish	0	0	0	0	0	0	0	33	0	0	0	0	33
<b>JACKSON</b>													
Crayfish	0	0	0	0	0	0	0	490	0	0	0	0	490
<b>JEFFERSON</b>													
Crayfish	0	0	0	10445	19467	16283	20377	15392	8955	2593	0	0	93512
<b>KLAMATH</b>													
Crayfish	0	0	0	0	0	2140	2877	3686	1774	0	0	0	10477
<b>LAKE</b>													
Shrimp, Brine	0	0	0	0	2100	8600	13800	2100	0	0	0	0	26600

TABLE 63. MONTHLY LANDINGS (POUNDS ROUND) OF CARP, CRAYFISH, FRESHWATER MUSSELS, PACIFIC LAMPREY AND BRINE SHRIMP HARVESTED IN OREGON, 1988.

COUNTY/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<b>LANE</b>													
Crayfish	0	0	0	15	0	18	0	0	0	0	0	0	33
<b>LINCOLN</b>													
Crayfish	0	0	0	0	0	2095	2716	103	227	0	0	0	5141
<b>MULTNOMAH</b>													
Crayfish	0	0	0	176	785	6426	12783	9136	4297	4126	0	0	37729
<b>WASHINGTON</b>													
Crayfish	0	0	0	0	0	608	3493	3708	2239	709	0	0	10757
Mussels, Freshwater	0	0	0	0	0	0	0	0	2564	0	0	0	2564
TOTAL	0	0	0	0	0	608	3493	3708	4803	709	0	0	13321
<b>YAMHILL</b>													
Crayfish	0	0	0	0	856	6866	8850	3813	7410	1940	0	0	29735
<b>TOTAL</b>													
Carp	0	0	0	0	0	0	0	0	0	0	0	0	0
Crayfish	0	0	0	11198	21600	49846	85758	53698	48507	28406	0	0	299013
Mussels, Freshwater	0	0	0	0	0	0	0	0	2564	0	0	0	2564
Lamprey, Pacific	0	0	0	0	0	1981	8847	68	0	0	0	0	10896
Shrimp, Brine	0	0	0	0	2100	8600	13800	2100	0	0	0	0	26600



Table 64. Oregon oyster production (gallons), 1979-88.

Bay/Species	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
<u>Tillamook Bay</u>										
Kumomoto oyster.....	0	0	6	7	0	0	9	4	0	0
Pacific oyster.....	15,665	18,912	22,575	26,174	21,330	30,964	21,204	21,325	23,930	24,084
<u>Netarts Bay</u>										
Pacific oyster.....	0	60	40	0	0	6	40	30	36	41
<u>Yaquina Bay</u>										
Kumomoto oyster.....	2	1	0	0	1	16	0	0	0	0
Pacific oyster.....	8,104	6,240	7,020	7,713	6,423	7,210	10,911	12,130	12,798	10,924
<u>Coos Bay</u>										
Pacific oyster.....	3,985	4,135	4,089	3,164	3,138	9,834	5,270	3,065	3,942	3,400
TOTAL	27,756	29,348	33,730	37,058	30,892	48,030	37,434	36,554	40,706	38,449

SOURCE: Oregon Department of Agriculture

## APPENDIX

### **1988 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 in Oregon.

A total of \$245 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 slightly over \$314 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 17 percent of coastal earned income in 1988. Table 1 is a summary of the personal income contribution of the industry to coastal areas and the state.

A more detailed report, *Oregon's Commercial Fishing Industry: Its Importance to Oregon's Economy in 1986*, has been developed by the West Coast Fisheries Development Foundation. For those interested more generally in Oregon's coastal economy, another booklet, *The Economic Landscape of the Oregon Coast*, was published by the Oregon Coastal Zone Management Association. This booklet described the importance of different economic sectors to the Oregon coastal economy in 1987.

Table 1. Personal Income Contribution of the Oregon Commercial Fishing and Processing Industry to Oregon Coastal Communities and to Oregon, 1988. (Millions of Dollars) 1/ 2/

	Astoria and Columbia R. Area	Tillamook Area	Newport Area	Florence Area	Reedsport Area	Coos Bay Area	Brookings Area	All Coastal Communities	Total Statewide Impact
Landed Fish	\$68.3	\$10.7	\$43.6	\$3.9	\$5.0	\$35.9	\$13.2	\$180.6	\$239.2
Distant Water	\$17.8	\$1.7	\$35.3	\$0.6	\$0.6	\$7.9	\$0.9	\$64.8	\$75.1
Total	\$86.1	\$12.4	\$78.9	\$4.4	\$5.6	\$43.8	\$14.1	\$245.3	\$314.3
Percent of Total Personal Income 3/	18%	5%	15%	3%	7%	6%	6%	10%	0.8%
Percent of Total Earned Income 4/	28%	9%	27%	6%	12%	9%	12%	17%	1.2%

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 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. Newport includes Depoe Bay. Coos Bay includes Bandon. Brookings 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.