

1989

POUNDS AND VALUES

OF FISH AND SHELLFISH
LANDED IN OREGON



oregon department of fish and wildlife

1989

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

by

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July 1991

FOREWORD

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

The joint efforts of many persons were required to 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.

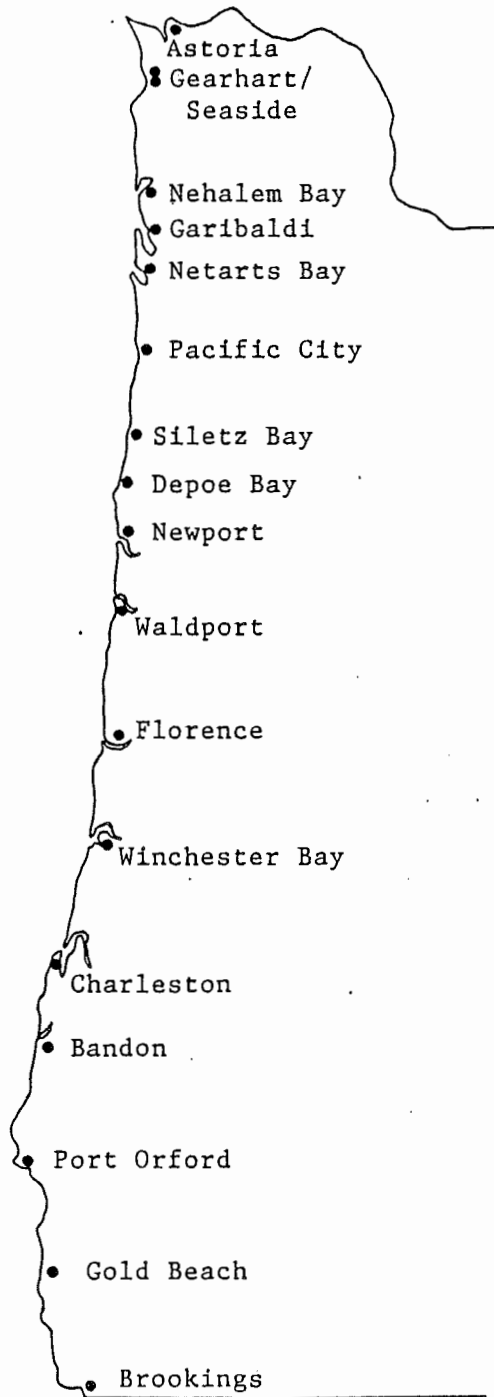


Figure 1. Oregon coastal ports

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, 1980-89) 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
FISHES		FISHES	
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>	Sucker, largescale.....	<i>Catostomus macrocheilus</i>
Flounder		Sunfish, ocean.....	<i>Mola mola</i>
Arrowtooth.....	<i>Atheresthes stomias</i>	Surfperch.....	Members of the family Embiotocidae
Starry.....	<i>Platichthys stellatus</i>	Thornyhead, shortspine.....	<i>Sebastes alascanus</i>
Greenling.....	<i>Hexagrammas</i> spp.	Thornyhead, longspine.....	<i>Sabastolobus altivelis</i>
Grenadier.....	Members of the family Macrouridae	Tomcod, Pacific.....	<i>Microgadus proximus</i>
Hagfish.....	<i>Eptatretus</i> spp.	Tuna	
Hake, Pacific (Whiting).....	<i>Merluccius productus</i>	Albacore.....	<i>Thunnus alalunga</i>
Halibut, Pacific.....	<i>Hippoglossus stenolepis</i>	Bluefin.....	<i>Thunnus thynnus</i>
Herring, Pacific.....	<i>Clupea harengus pallasii</i>	Skipjack.....	<i>Euthynnus pelamis</i>
Irish Lord, red.....	<i>Hemilepidotus hemilepidotus</i>	Yellowfin.....	<i>Thunnus albacares</i>
Lamprey, Pacific.....	<i>Entosphenus tridentatus</i>	Walleye.....	<i>Stizostedion vitreum vitreum</i>
Lingcod.....	<i>Ophiodon elongatus</i>	Wolf-eel.....	<i>Anarrhichthys ocellatus</i>
Mackerel.....	Members of the family <i>Carangidae</i> and <i>Scombridae</i>	Wrymouth, giant.....	<i>Delolepis gigantea</i>
Opah.....	<i>Lampris guttatus</i>		
Pollock, walleye.....	<i>Theragra chalcogramma</i>	CRUSTACEANS	
Prickleback, monkeyface.....	<i>Cebidichthys violaceus</i>	Barnacle, gooseneck.....	<i>Mitella polymerus</i>
Ratfish.....	<i>Hydrolagus collieri</i>	Crab	
Rockfish		Box.....	<i>Lopholithodes foraminatus</i>
Miscellaneous rockfish.....	<i>Sebastes</i> spp.	Dungeness.....	<i>Cancer magister</i>
Pacific Ocean Perch.....	<i>Sebastes alutus</i>	Mole.....	<i>Emerita analoga</i>
Widow.....	<i>Sebastes entomelas</i>	Rock.....	<i>Cancer productus</i>
Yellowtail.....	<i>Sebastes flavidus</i>	Tanner.....	<i>Chionoecetes</i> spp.
Sablefish.....	<i>Anoplopoma fimbria</i>	Crayfish.....	<i>Pacifastacus</i> spp.
Salmon		Shrimp	
Chinook.....	<i>Oncorhynchus tshawytscha</i>	Brine.....	<i>Artemia salina</i>
Chum.....	<i>Oncorhynchus keta</i>	Ghost (Sand).....	<i>Callinassa californensis</i>
Coho.....	<i>Oncorhynchus kisutch</i>	Mud.....	<i>Upogebia pugettensis</i>
Pink.....	<i>Oncorhynchus gorbuscha</i>	Pink.....	<i>Pandalus jordani</i>
Sockeye.....	<i>Oncorhynchus nerka</i>	Water flea.....	Members of the family Daphnidae
Sanddab, Pacific.....	<i>Citharichthys sordidus</i>		
Sculpin, buffalo.....	<i>Enophrys bison</i>	MOLLUSKS	
Shad, American.....	<i>Alosa sapidissima</i>	Clam	
Shark		Butter.....	<i>Saxidomus giganteus</i>
Sixgill.....	<i>Haxanchus griseus</i>	Cockle.....	<i>Clinocardium nuttallii</i>
Soupfin.....	<i>Galeorhinus zyopterus</i>	Gaper.....	<i>Tresus capax</i>
Spiny dogfish.....	<i>Squalus acanthias</i>	Littleneck.....	<i>Venerupis</i> spp.
Thresher.....	<i>Alopias vulpinus</i>	Razor.....	<i>Siliqua patula</i>
Skates and Rays.....	Members of the family <i>Rajidae</i> , <i>Rhinobatidae</i> and <i>Myliobatidae</i>	Softshell.....	<i>Mya arenaria</i>
Smelt.....	Members of the family Osmeridae	Mussel, freshwater.....	Members of the family <i>Margaritiferidae</i> & <i>Unionidae</i>
Smelt, whitebait.....	<i>Allosmerus elongatus</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 caurins</i>
Petrale.....	<i>Eopsetta jordani</i>	Squid.....	<i>Loligo opalescens</i>
Rex.....	<i>Glyptocephalus zachirus</i>		
Rock.....	<i>Lepidopsetta bilineata</i>	OTHER INVERTEBRATES	
Sand.....	<i>Psettichthys melanostictus</i>	Bloodworm.....	<i>Euzonus</i> spp.
Slender.....	<i>Lyopsetta exilis</i>	Urchin, red sea.....	<i>Strongylocentrotus fanciscanus</i>
Squawfish, Northern.....	<i>Ptychocheilus oregonensis</i>	Worms, tube.....	<i>Serpula</i> , spp.

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

Type	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Albacore tuna landing.....	134	223	87	105	81	48	51	50	76	55
Bait fishing.....	72	112	91	96	97	106	122	111	127	113
Boat.....	4,928	4,575	4,231	3,966	2,078	2,982	3,072	3,109	3,529	3,508
Individual fishing.....	8,383	8,008	7,449	6,853	3,946	5,619	6,330	7,025	7,423	7,345
Single Delivery.....	224	196	109	85	113	165	406	678	136	108
Gillnet permit.....	571	534	511	475	436	373	370	370	356	356
Scallop permit.....	--	196	164	144	134	113	101	103	104	105
Shrimp permit.....	373	295	268	234	209	180	173	181	220	211
Troll permit.....	4,311	3,926	3,646	3,439	3,203	2,993	2,739	2,626	2,597	2,574
Bait dealers:										
Reporting.....	55	77	45	59	67	66	71	62	72	71
Non-reporting.....	1/	1/	8	17	27	34	33	27	27	30
Buyer.....	84	121	119	124	78	94	122	150	179	159
Canner, fish.....	12	8	8	7	7	8	6	7	1	7
Canner, shellfish.....	3	3	3	4	3	2	2	3	4	2
Limited fish seller.....	--	--	--	--	--	2	31	37	57	77
Wholesale fish dealer:										
Reporting.....	243	229	217	221	180	181	168	168	171	188
Non-reporting.....	1/	1/	12	18	13	14	21	33	30	36
Private hatchery.....	1/	1/	7	8	8	9	7	6	6	6
Boat, lost license.....	2	--	40	28	11	18	23	30	31	35
Indiv. fishing, lost license..	21	10	55	38	11	14	18	26	67	50
Permit fisheries, lost permit.	NA	NA	NA	NA	NA	NA	NA	37	28	29
Special permit.....	129	99	115	103	107	92	73	74	87	59
TOTAL	19,545	18,612	17,185	16,024	10,809	13,113	13,639	14,913	15,338	15,124

1/ Included with reporting
 NA - Not Available

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

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
FISH:										
Anchovy, northern.....	0	0	200	0	0	31	0	0	25	30
Bonita.....	0	0	0	1462	0	0	0	0	0	0
Cabezon.....	0	299	142	702	2512	5681	10963	14051	24987	14765
Carp.....	6362	0	0	50	0	0	0	11184	0	0
Squawfish, Northern...	0	0	0	0	0	0	0	0	0	42
Cod, Pacific.....	356522	116947	260319	196644	175782	85401	67789	1468747	2280678	1720551
Flounder, arrowtooth..	438774	1311268	1617209	1191733	919403	1539458	1107314	1631086	1414080	2505977
Flounder, starry.....	426768	839441	481812	432560	236979	789941	215869	216867	345650	443256
Greenling.....	0	0	0	0	0	0	0	0	177	169
Grenadier.....	0	0	0	798	0	0	0	462	46854	112981
Hagfish.....	0	0	0	0	0	0	0	0	25782	344187
Hake, Pac. (Whiting)..	605298	360251	3316	142536	745561	1950069	926681	402713	543196	195914
Halibut, Pacific.....	176684	150396	234730	579560	1055044	812822	1313774	916022	582020	916024
Herring, Pacific.....	140723	148410	144970	145915	177452	163566	220300	493788	355890	546391
Lamprey.....	3233	4666	39169	4482	3391	6381	4740	5633	10896	8366
Lingcod.....	1662778	2307361	3213736	3630684	2344785	2320901	1444321	1589771	2222190	2590810
Mackerel.....	20	26	83	18253	6724	13	4	3229	1403	10443
Opah.....	0	0	0	448	0	0	89	1727	160	0
Pollock, walleye.....	0	0	0	348	880	310	1523	0	0	47
Prickleback, monkeyface	0	0	0	302	250	71	487	0	0	0
Ratfish.....	0	0	0	0	0	0	0	0	28	110
Pac. Oc. Perch.....	3615284 1/	4350997 1/	5508130 1/	5192175 1/	1576824	1554767	1385049	1048384	1403168	1557365
Nominal POP.....	2/	2/	2/	2/	1472712	2378182	2093582	2046590	2980699	3046334
Rockfish, widow.....	3/	31768970	19198987	3/	11635817	9535357	9435395	13963484	12009023	15236547
Rockfish, yellowtail..	3/	3/	3/	3/	3/	2985880	3667900	3700306	4960998	4076729
Rkfish, Sebastolobus...	3/	3/	3/	3/	1765270	2261759	1399250	1480307	2209850	5564151
Rockfish, other spp...	35173303	18321418	22031780	30291426	12231908	10033146	7912703	10037674	9838085	11086159
Sablefish.....	6025840	5166329	11220816	10234762	10666025	11624342	10261789	11551670	8999796	8704848
Salmon, chinook.....	3954327	2439675	4365146	1287328	1759165	3856605	6477211	11482797	11741177	7610539

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

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Salmon, chum.....	1824	11118	13964	1100	10978	3560	8287	6821	14697	4164
Salmon, coho.....	3255659	4156442	4204763	1300319	1183454	1822156	6936485	3058254	5697737	3836619
Salmon, pink.....	1805	372605	0	269	0	297429	12	100463	12	20295
Salmon, sockeye.....	0	0	472	2998	82495	143251	14311	124037	65036	59
Sanddab, Pacific.....	356592	293589	526000	531290	614479	395496	321095	468094	241914	162923
Sculpin.....	0	0	0	0	0	0	0	0	0	2
Irish Lord, Brown.....	0	0	0	0	0	0	0	0	0	2
Irish Lord, Red.....	0	0	0	0	0	0	0	0	6	2
Sculpin, Buffalo.....	0	0	0	0	0	0	0	0	21	10
Shad, American.....	291414	117477	435351	359719	198414	140143	343154	365482	393621	194516
Shark, sixgill.....	0	0	0	0	0	0	0	0	0	135
Shark, soupfin.....	1791	3585	11081	13905	7784	9087	7161	17511	3029	3264
Shark, spiny dogfish..	56305	10608	2090	2581	873	290	363	225	1110	698
Shark, thresher.....	0	0	0	0	0	2092	935100	101664	88957	30
Shark, other.....	0	1293	8213	7100	696	1616	1333	3645	67	159
Skates and rays.....	183673	85861	63889	159640	59495	11385	22767	21421	4571	8319
Smelt.....	323762	24013	55346	40343	30551	673322	36636	48725	58971	29654
Smelt, Whitebait.....	0	0	0	0	0	0	0	0	0	4512
Sole, butter.....	26713	22463	19178	12075	2252	707	1034	10617	691	2465
Sole, curlfin (turbot)	1016	5105	9793	9439	6908	4518	4752	9685	6328	5420
Sole, Dover.....	9080509	11672995	17951407	18698513	13472731	12585063	10623952	13353184	16925202	19638358
Sole, English.....	1584178	1600095	2187335	2014645	993103	1031237	1221130	1310569	1281272	1527272
Sole, flathead.....	7035	11111	6524	17105	11854	32132	5556	1311	20708	7252
Sole, petrale.....	1890934	1948665	3323843	2435788	1517840	1273559	1568374	1884519	1989500	1901739
Sole, rex.....	1175957	1346409	1865611	1426686	1210425	874431	629946	632021	734799	623183
Sole, rock.....	28729	19871	66543	9278	4630	1424	12862	2498	11383	5555
Sole, sand.....	564653	735458	856930	696583	481734	485018	531913	500462	349569	487093
Sole, slender.....	25	0	0	0	0	5	0	0	0	0
Steelhead.....	29772	61060	53564	80487	562348	454332	360654	319411	267345	252099
Sturgeon, green.....	23240	9990	21219	18970	54870	31431	87823	67553	58028	10673

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

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Sturgeon, white.....	183927	280123	236691	296643	401621	306687	485588	428330	231041	200472
Sucker, Largescale....	0	0	0	0	0	0	0	0	0	28
Sunfish, ocean.....	0	0	0	244	70	0	0	0	50	0
Surfperch.....	121	167	342	2421	4920	3314	4369	2539	5551	3710
Tomcod, Pacific.....	0	0	0	46	0	0	0	0	69	0
Tuna, albacore.....	3504715	7726890	1913063	3410429	1630763	1524601	2461004	2288045	3967120	1079657
Tuna, other.....	1006	0	580	177	185	0	364	13	154	0
Walleye.....	0	0	0	0	0	0	0	0	0	7065
Wolf-eel.....	690	1435	2348	6747	5067	5947	7064	9276	4857	4917
Wrymouth.....	0	0	0	0	0	0	0	254	560	121
Miscellaneous.....4/	221060	335370	1219	3	271	223	1421	3947	227	0
CRUSTACEANS:										
Barnacle, Gooseneck...	0	0	0	0	0	0	0	0	30	561
Crab, box.....	0	0	502	16207	271881	93431	3060	24	0	412
Crab, Dungeness.....	18650635	6984025	7035245	5350560	5013455	7422901	4660672	5990869	9414002	11675901
Crab, mole.....	0	0	0	0	0	0	0	0	15	8
Crab, rock.....	1788	7	0	0	1155	1552	1806	5321	7772	4037
Crab, Tanner.....	0	0	65	1338	0	48	0	121	0	16
Crayfish.....	78359	83904	155231	125519	104745	196241	217829	336279	299013	237990
Shrimp, brine.....	3125	3935	7100	12402	16500	20100	22400	23100	26600	29800
Shrimp, ghost.....	57888	55499	68749	69905	115699	110134	75368	52470	70815	68040
Shrimp, mud.....	0	0	0	0	0	4663	53232	42273	40277	40995
Shrimp, pink.....	30152030	25923589	18461988	6547073	4643571	14855247	33883577	44589472	41846202	49128914
Shrimp, spot.....	0	0	0	0	0	0	0	0	0	74
Water flea (Daphnia)..	0	0	0	0	0	0	0	0	0	3000
MOLLUSKS:										
Clams, butter.....	40	2409	3669	4035	4842	1646	2862	3046	2492	3806
Clams, cockle.....	2244	4580	10517	2579	17919	29412	32697	20202	30068	44344
Clams, gaper.....	73459	62142	104290	95091	50573	20121	16519	6368	3656	5164
Clams, littleneck.....	4268	4892	13265	34444	46874	46266	27573	14140	6971	6032

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

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Clams, softshell.....	456	684	248	36	366	1809	3558	2527	1596	1136
Clams, razor.....	20291	22516	26528	100	5803	58253	2906	29197	33910	32177
Mussels, ocean.....	60629	17866	18372	28267	36198	40168	37494	48903	50656	65048
Mussels, bay.....	0	0	0	2485	3856	0	2378	0	0	0
Mussels, freshwater...	0	0	0	0	0	0	0	3407	2564	3773
Octopus.....	14013	14082	18597	16780	12970	7682	9540	18771	46903	15318
Scallops, rock.....	0	0	0	0	0	0	0	0	0	220
Scallops, weathervane	0	16853845	1487941	2646965	3329234	819030	105523	13590	29226	0
Squid.....	0	225	113138	297410	946725	1751773	26371	29	5	96025
OTHER INVERTEBRATES:										
Sea urchins.....	0	0	0	0	0	0	55820	0	0	0
Sea urchins, red.....	0	0	0	0	0	0	0	202799	1970963	7842658
Bloodworms.....	0	0	0	0	0	0	0	0	0	28
Worms, tube.....	0	0	0	0	1333	2069	0	0	1570	1938
	124507246	148224452	129683351	100360962	84170994	99603185	113822428	138611976	148306322	165622642

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

2/ INCLUDED IN PACIFIC OCEAN PERCH.

3/ INCLUDED IN ROCKFISH, OTHER SPP.

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

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

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
FISH:										
Anchovy, northern.....	0	0	50	0	0	34	0	0	13	15
Bonita.....	0	0	0	504	0	0	0	0	0	0
Cabazon.....	15	76	30	183	802	1274	2271	3038	7110	4354
Carp.....	1289	0	0	15	0	0	0	1118	0	0
Squawfish, Northern...	0	0	0	0	0	0	0	0	0	2
Cod, Pacific.....	71414	24857	62376	48830	45198	21740	18242	481583	625590	448314
Flounder, arrowtooth..	41341	119956	164932	120601	91980	154469	113258	238787	185739	242358
Flounder, starry.....	90919	198705	120726	117274	66428	224439	62831	74829	107107	133213
Greenling.....	0	0	0	0	0	0	0	0	121	99
Grenadier.....	0	0	0	160	0	0	0	60	7331	17920
Hagfish.....	0	0	0	0	0	0	0	0	9024	103256
Hake, Pac. (Whiting)..	42156	25139	68	39486	44065	163209	59623	33054	41183	14625
Halibut, Pacific.....	152569	160251	255599	630308	802395	799284	1069505	1017892	873846	1302466
Herring, Pacific.....	84435	57211	118262	78077	44297	243176	94599	236438	234041	267457
Lamprey.....	970	2006	26681	582	856	2233	1659	5633	1624	2950
Lingcod.....	377296	512504	767717	953314	585556	604400	443023	602693	799550	871307
Rockfish.....	10	2	21	7796	671	1	1	535	365	1174
Cod.....	0	0	0	90	0	0	36	777	80	0
Pollock, walleye.....	0	0	0	35	251	62	61	0	0	5
Prickleback, monkeyface	0	0	0	50	45	13	104	0	0	0
Ratfish.....	0	0	0	0	0	0	0	0	3	11
Pac. Ool. Perch.....	641482 1/	693320 1/	1032197 1/	1110487 1/	365189	373653	384223	346283	409526	432166
Nominal POP.....	2/	2/	2/	2/	306783	553919	549627	628299	804019	737407
Rockfish, widow.....	3/	4062242	3059718	3/	2662442	2370142	2572719	4479950	3385916	3923316
Rockfish, yellowtail	3/	2/	3/	3/	3/	757761	1036689	1195564	1398018	1099739
Rifish, Sebastolobus	3/	3/	3/	3/	423501	590471	395154	432735	780096	2050440
Rockfish, other spp.	5275650	2935590	4165621	6040081	2867249	2595437	2524962	3472619	2899417	3124719
Sablefish.....	1088227	1074003	2465580	2215240	2212122	3324997	3600071	5084185	4549831	3634542
Salmon, chinook.....	6720957	4829927	7608117	1882384	3655784	6739449	8264478	21496898	26842749	10659401

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

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Salmon, chinook.....	1251	6869	7250	581	5770	1278	3014	6412	10650	2144
Salmon, coho.....	3774321	5909667	4739763	1091541	1334676	1794040	6708735	4911333	11710396	3454954
Salmon, pink.....	1366	272840	0	174	0	168007	6	69432	10	13111
Salmon, sockeye.....	0	0	702	2021	90866	154038	16447	186607	126280	30
Sanddab, Pacific.....	99256	78901	156212	169939	200896	120456	110051	171223	79358	41369
Sculpin.....	0	0	0	0	0	0	0	0	0	1
Irish Lord, Brown.....	0	0	0	0	0	0	0	0	0	1
Irish Lord, Red.....	0	0	0	0	0	0	0	0	1	1
Sculpin, Buffalo.....	0	0	0	0	0	0	0	0	2	1
Shad, American.....	61251	28035	155335	73453	44959	26161	66775	72841	93575	73650
Shark, sixgill.....	0	0	0	0	0	0	0	0	0	74
Shark, soupfin.....	769	1216	4224	6579	4505	4536	5129	12203	2751	3114
Shark, spiny dogfish..	3907	734	171	190	69	29	104	83	191	333
Shark, thresher.....	0	0	0	0	0	2092	535070	155758	135189	49
Shark, other.....	0	658	4815	3603	530	792	911	2887	39	95
Skates and rays.....	15806	6747	15818	33112	10316	2694	5991	6714	1461	2654
Smelt.....	27345	2508	7694	10123	8710	97504	8930	12357	12286	6118
Smelt, Whitebait.....	0	0	0	0	0	0	0	0	0	1451
Sole, butter.....	5766	4240	4246	2685	470	172	216	2650	173	617
Sole, curlfin (turbot)	350	1962	2988	2889	1929	1480	1635	3220	2232	1907
Sole, Dover.....	1830109	2568746	4190843	4227393	3193069	3159418	2826414	4183821	5216455	5472600
Sole, English.....	433616	462755	700383	650712	319919	342424	439679	533197	500736	562838
Sole, flathead.....	1267	3094	2040	5459	3861	10588	1977	494	7946	2755
Sole, petrale.....	674186	1027317	2060523	1697737	1092768	935903	1198069	1552777	1661977	1589975
Sole, rex.....	350410	403710	600783	466922	401039	291065	225847	248299	285241	227305
Sole, rock.....	10585	6878	22246	2634	1435	389	4455	1061	3022	2112
Sole, sand.....	220556	340389	447093	414462	295965	305618	346481	366779	261004	363872
Sole, slender.....	5	0	0	0	0	2	0	0	0	0
Steelhead.....	34558	74704	59320	62006	590768	212324	199113	351209	382736	136572
Sturgeon, green.....	10205	4222	7881	7478	25092	14946	44021	34320	32296	5444

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

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Sturgeon, white.....	188454	291297	250871	335821	540390	447939	771369	714606	424259	395225
Sucker, largescale....	0	0	0	0	0	0	0	0	0	1
Sunfish, ocean.....	0	0	0	49	14	0	0	0	5	0
Surfperch.....	121	93	80	1286	2311	1963	2177	1748	3105	2810
Toxicod, Pacific.....	0	0	0	9	0	0	0	0	31	0
Tuna, albacore.....	2745478	6678117	1265397	1881210	884510	814222	919763	1675345	3327289	887241
Tuna, other.....	584	0	243	89	184	0	125	9	65	0
Walleye.....	0	0	0	0	0	0	0	0	0	4649
Wolf-eel.....	690	1435	563	1262	1696	1485	1765	2304	1025	1471
Wrymouth.....	0	0	0	0	0	0	0	95	58	18
Miscellaneous.....4/	0	134	1615	1	130	14	2665	13541	534	0
CRUSTACEANS:										
Barnacle, Gooseneck...	0	0	0	0	0	0	0	0	8	1938
Crab, box.....	0	0	294	10828	153622	46588	1530	10	0	168
Crab, Dungeness.....	12373341	6712248	7550695	7934349	7758923	10740671	6588472	8351876	11276973	13564259
Crab, mole.....	0	0	0	0	0	0	0	0	70	8
Crab, rock.....	1788	7	0	0	1155	1552	1806	5321	7772	4037
Crab, Tanner.....	0	0	39	1552	0	17	0	242	0	16
Crayfish.....	68630	97858	166362	128710	108999	201763	225533	470458	415895	318466
Shrimp, brine.....	3749	4330	8520	17115	24750	11256	22395	34650	39900	46260
Shrimp, ghost.....	95385	66677	71728	51175	107897	237379	151555	135904	90038	97903
Shrimp, mud.....	0	0	0	0	0	12782	185811	64982	66198	67123
Shrimp, pink.....	16683901	13042627	9288364	4656160	2148029	5241302	18104562	30272202	17149668	17906265
Shrimp, spot.....	0	0	0	0	0	0	0	0	0	259
Water flea (Daphnia)...	0	0	0	0	0	0	0	0	0	3000
MOLLUSKS:										
Clams, butter.....	37	663	1175	1642	1967	715	1368	1422	1549	1547
Clams, cockle.....	804	1137	2615	861	7686	11734	12837	5704	12675	20643
Clams, gaper.....	22041	21369	34852	29477	15804	5492	3487	1573	1176	1750
Clams, littleneck.....	3841	5192	14268	36620	48320	45219	28352	15716	8219	8951

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

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Clams, softshell.....	311	403	166	36	185	705	2672	524	554	450
Clams, razor.....	26630	34967	42807	189	10417	114989	6058	64172	86831	97962
Mussels, ocean.....	22289	15642	24911	17116	31168	30161	33377	26478	20075	21871
Mussels, bay.....	0	0	0	55	3605	0	666	0	0	0
Mussels, freshwater...	0	0	0	0	0	0	0	954	744	1094
Octopus.....	6180	6254	8354	7025	5924	4151	5841	14199	31282	8625
Scallops, rock.....	0	0	0	0	0	0	0	0	0	10
Scallops, weathervane	0	4671448	427292	778781	1017784	327922	47538	6406	12017	0
Squid.....	0	45	9117	79901	199941	318577	2684	3	1	7683
OTHER INVERTEBRATES:										
Sea urchins.....	0	0	0	0	0	0	14707	0	0	0
Sea urchins, red.....	0	0	0	0	0	0	0	51360	571083	2728272
Bloodworms.....	0	0	0	0	0	0	0	0	0	11
Worms, tube.....	0	0	0	0	667	535	0	0	314	773
TOTAL	54559875	57556927	52209637	38147769	34365180	45814646	61727192	94702340	97837159	77427102

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

2/ INCLUDED IN PACIFIC OCEAN PERCH.

3/ INCLUDED IN ROCKFISH, OTHER SPP.

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

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

SPECIES	COLUMBIA		PACIFIC GARIBALDI	CITY	DEPOE		WINCHESTER			PORT ORFORD	GOLD BEACH	OTHER 2/ BROOKINGS- LOCATIONS	TOTAL	
	RIVER 1/ ASTORIA				BAY	NEWPORT	FLORENCE	BAY	CHARLESTON					BANDON
FISH:														
Anchovy, northern.....	30	0	0	0	0	0	0	0	0	0	0	0	0	30
Cabezon.....	0	0	1089	881	10049	1617	0	65	435	0	584	0	45	14765
Squawfish, Northern...	0	0	0	0	0	0	0	0	0	0	0	0	42	42
Cod, Pacific.....	0	1308101	135915	0	0	261966	0	144	14281	0	0	0	144	1720551
Flounder, arrowtooth..	0	2017387	174513	0	5	161480	0	94	144617	0	10	0	7871	2505977
Flounder, starry.....	13303	323856	14965	0	3	69629	0	345	19883	0	0	0	1272	443256
Greenling.....	0	0	0	0	149	20	0	0	0	0	0	0	0	169
Grenadier.....	0	0	0	0	0	0	0	0	24931	0	0	0	88050	112981
Hagfish.....	0	195205	0	0	0	148982	0	0	0	0	0	0	0	344187
Hake, Pac. (Whiting)..	0	10505	0	0	0	184028	0	0	1381	0	0	0	0	195914
Halibut, Pacific.....	0	646905	44140	270	1824	148340	0	30674	23647	3091	16871	0	262	916024
Herring, Pacific.....	0	0	0	0	0	546115	0	276	0	0	0	0	0	546391
Lamprey.....	0	0	0	0	0	0	0	0	0	0	0	0	8366	8366
Lingcod.....	0	1998448	189858	21402	17138	563803	485	4441	472119	902	70189	3510	148507	2590810
Mackerel.....	0	60	1531	2794	1345	4643	0	0	70	0	0	0	0	10443
Pollock, walleye.....	0	0	0	0	0	0	0	0	47	0	0	0	0	47
Ratfish.....	0	0	0	0	0	110	0	0	0	0	0	0	0	110
Pac. Oc. Perch.....	0	1229384	7220	0	0	240499	0	0	80262	0	0	0	0	1557365
Nominal POP.....	0	676078	708773	0	0	989571	0	215	589461	0	0	0	82286	3046384
Rockfish, widow.....	0	4066246	283173	0	0	8639006	172	0	1318920	0	0	0	929030	15236547
Rockfish, yellowtail..	0	2734729	241788	0	1	440272	160	3	513026	0	0	0	146750	4076729
Rkfsh, Sebastolobus...	0	1273760	82731	0	0	362121	0	78	2044841	678	0	0	1799942	5564151
Rockfish, other spp...	0	5065442	372842	38358	47860	3311324	2552	9100	1773089	13334	233513	5417	213230	11086159
Sablefish.....	0	2342842	227946	0	6928	1632516	516809	171519	2910361	130834	46258	0	818835	8704848
Salmon, chinook.....	3548202	55319	278491	68664	16938	875745	151119	278925	1562966	153573	321592	10671	184472	7610539
Salmon, chum.....	3666	0	59	92	0	241	0	100	6	0	0	0	0	4164
Salmon, coho.....	1541772	114156	350223	255942	101124	574745	103205	208501	386350	74649	67157	0	5531	3836619

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

SPECIES	COLUMBIA		PACIFIC		DEPOE		WINCHESTER			PORT	GOLD	OTHER 2/		TOTAL	
	RIVER 1/	ASTORIA	GARIBALDI	CITY	BAY	NEWPORT	FLORENCE	BAY	CHARLESTON	BANDON	ORFORD	BEACH	BROOKINGS		LOCATIONS
Salmon, pink.....	0	243	4245	3459	439	4184	95	1154	4970	338	924	0	52	192	20295
Salmon, sockeye.....	59	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Sanddab, Pacific.....	0	82730	8458	0	0	56282	0	0	12354	0	0	0	3099	0	162923
Sculpin.....	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Irish Lord, Brown.....	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Irish Lord, Red.....	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Sculpin, Buffalo.....	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10
Shad, American.....	143825	35	6	0	0	0	11633	39017	0	0	0	0	0	0	194516
Shark, sixgill.....	0	0	0	0	36	40	0	0	11	0	48	0	0	0	135
Shark, soupfin.....	0	2016	77	0	30	600	0	0	139	0	0	0	402	0	3264
Shark, spiny dogfish..	0	500	0	0	34	164	0	0	0	0	0	0	0	0	698
Shark, thresher.....	0	30	0	0	0	0	0	0	0	0	0	0	0	0	30
Shark, other.....	0	122	22	0	0	15	0	0	0	0	0	0	0	0	159
Skates and rays.....	0	553	1277	0	0	6196	0	73	220	0	0	0	0	0	8319
Smelt.....	19968	0	0	0	0	0	0	0	0	0	0	0	9686	0	29654
Smelt, Whitebait.....	0	0	0	0	0	0	0	0	0	0	0	0	4512	0	4512
Sole, butter.....	0	0	1295	0	0	0	0	0	0	0	0	0	1170	0	2465
Sole, curlfin (turbot)	0	0	114	0	0	2482	0	6	2818	0	0	0	0	0	5420
Sole, Dover.....	0	8809807	1027343	0	4	1773047	0	88	6978705	0	0	0	1048864	0	19638358
Sole, English.....	0	838604	59454	0	0	290162	0	0	304316	0	0	0	34736	0	1527272
Sole, flathead.....	0	7214	38	0	0	0	0	0	0	0	0	0	0	0	7252
Sole, petrale.....	0	741889	116244	0	0	354548	0	22	616376	0	0	0	72660	0	1901739
Sole, rex.....	0	413399	28295	0	0	93938	0	0	46563	0	0	0	40988	0	623183
Sole, rock.....	0	0	0	0	0	524	0	0	5022	0	0	0	9	0	5555
Sole, sand.....	0	241851	43833	0	0	115095	0	746	69440	0	0	0	16128	0	487093
Steelhead.....	252099	0	0	0	0	0	0	0	0	0	0	0	0	0	252099
Sturgeon, green.....	3840	2128	562	0	0	3433	0	0	683	0	0	0	27	0	10673
Sturgeon, white.....	199994	154	0	0	0	324	0	0	0	0	0	0	0	0	200472
Sucker, Largescale....	0	0	0	0	0	0	0	0	0	0	0	0	0	28	28

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

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

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

SPECIES	COLUMBIA		PACIFIC		DEPOE		WINCHESTER			PORT	GOLD	OTHER 2/		TOTAL	
	RIVER 1/	ASTORIA	GARIBALDI	CITY	BAY	NEWPORT	FLORENCE	BAY	CHARLESTON	BANDON	ORFORD	BEACH	BROOKINGS		LOCATIONS
Mussels, ocean.....	0	0	0	0	2473	2030	1555	51049	1111	2950	900	0	0	2980	65048
Mussels, freshwater...	0	0	0	0	0	0	0	0	0	0	0	0	0	3773	3773
Octopus.....	0	3440	672	0	337	2004	0	0	262	0	1617	24	6762	0	15318
Scallops, rock.....	0	0	0	0	0	0	0	0	0	0	210	10	0	0	220
Squid.....	0	0	11	0	0	96014	0	0	0	0	0	0	0	0	96025
OTHER INVERTEBRATES:															
Sea urchins, red.....	0	0	0	0	9313	83993	0	0	63854	0	6031610	1585492	63396	0	7842658
Bloodworms.....	0	0	0	0	0	0	0	0	28	0	0	0	0	0	28
Worms, tube.....	0	0	0	0	0	0	0	0	1938	0	0	0	0	0	1938
TOTAL	5733323	49420248	7308689	398502	278753	43345447	1049281	1707439	34795604	400139	7479267	1612007	11630034	463409	165022642

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 LAMPREY AND BRINE SHRIMP BY COUNTY.

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Anchovy, northern.....	0	0	0	0	0	0	0	0	30	0	0	0	30
Cabezon.....	621	646	366	3738	5271	385	1024	716	1302	60	319	317	14765
Squawfish, Northern...	0	0	0	24	6	12	0	0	0	0	0	0	42
Cod, Pacific.....	60895	34835	19418	146739	194055	245080	338099	419090	144828	39960	15373	62179	1720551
Flounder, arrowtooth..	95827	152080	101512	126831	171308	319840	433232	343080	286028	187679	155882	132678	2505977
Flounder, starry.....	833	4539	3004	8723	166808	88002	50360	60000	53230	3386	788	3583	443256
Greenling.....	1	0	0	17	32	47	42	30	0	0	0	0	169
Grenadier.....	240	1090	7250	12558	7665	10990	13250	18201	19159	10855	9413	2310	112981
Hagfish.....	0	0	0	0	0	0	55067	11730	82396	99769	62597	32628	344187
Hake, Pac. (Whiting)..	0	0	0	65114	6240	0	0	0	49168	42129	33263	0	195914
Halibut, Pacific.....	0	200	0	0	27357	304590	32872	55080	313795	182058	23	49	916024
Herring, Pacific.....	0	529241	138	16734	0	276	2	0	0	0	0	0	546391
Lampray.....	0	0	0	0	0	5984	2382	0	0	0	0	0	8366
Lingcod.....	49119	87248	61741	133826	254649	299640	343324	378818	487056	300458	89578	105353	2590810
Mackerel.....	0	0	0	0	0	36	5542	4827	23	10	0	0	10443
Pollock, walleye.....	0	47	0	0	0	0	0	0	0	0	0	0	47
Ratfish.....	0	0	0	0	0	0	76	34	0	0	0	0	110
Pac. Oc. Perch.....	102533	136957	103033	172240	208829	216798	221777	129351	142174	89468	34101	104	1557365
Nominal POP.....	355471	403772	156503	237852	190404	252077	323941	347928	284442	203280	101322	189392	3046384
Rockfish, widow.....	3282375	2877020	2273220	2011136	493275	475920	852872	1066934	1229372	500143	56019	118261	15236547
Rockfish, yellowtail..	361523	324335	249483	441678	547594	488035	404698	307987	482701	262353	75622	130720	4076729
Rkfish, Sebastolobus...	352884	423029	451460	499327	426222	338836	576966	552160	334528	431808	547007	629924	5564151
Rockfish, other spp...	719980	733212	427758	1093635	1206099	1110883	1069594	1315311	1305883	1011852	475497	616455	11086159
Sablefish.....	526641	486939	534364	1084147	1254750	1058468	1160174	571333	518349	509320	439370	560993	8704848
Salmon, chinook.....	0	85779	90960	708	1134292	671737	858288	1893025	2338110	434738	102902	0	7610539
Salmon, chum.....	0	0	0	0	251	133	96	18	15	2553	1098	0	4164
Salmon, coho.....	0	0	0	0	0	5352	1859137	381603	493665	982059	114803	0	3836619
Salmon, pink.....	0	0	0	0	1451	2965	11821	4044	14	0	0	0	20295
Salmon, sockeye.....	0	0	0	0	0	0	0	52	7	0	0	0	59

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Sanddab, Pacific.....	15541	27560	9406	20911	14011	7522	15052	16738	15636	6400	2626	11520	162923
Sculpin.....	0	0	0	0	0	0	2	0	0	0	0	0	2
Irish Lord, Brown.....	0	0	0	2	0	0	0	0	0	0	0	0	2
Irish Lord, Red.....	0	0	0	0	2	0	0	0	0	0	0	0	2
Sculpin, Buffalo.....	0	0	0	5	4	0	1	0	0	0	0	0	10
Shad, American.....	0	0	0	0	85917	107167	1391	0	41	0	0	0	194516
Shark, sixgill.....	0	11	0	0	0	36	0	40	0	0	48	0	135
Shark, soupfin.....	40	398	0	28	64	492	860	366	54	156	338	468	3264
Shark, spiny dogfish..	0	0	0	18	4	53	77	43	3	490	0	10	698
Shark, thresher.....	30	0	0	0	0	0	0	0	0	0	0	0	30
Shark, other.....	0	0	0	0	0	0	15	144	0	0	0	0	159
Skates and rays.....	675	1866	837	70	272	802	673	1805	1016	0	192	111	8319
Smelt.....	0	200	19768	0	725	3202	4744	1015	0	0	0	0	29654
Smelt, Whitebait.....	0	0	0	0	1229	90	3193	0	0	0	0	0	4512
Sole, butter.....	0	0	0	0	63	0	0	1227	5	1170	0	0	2465
Sole, curlfin (turbot)	0	186	52	231	2472	1042	1304	126	0	0	0	7	5420
Sole, Dover.....	1925430	1615360	1665516	2362025	1411751	968607	1169823	1418259	1691764	1792861	1611779	2005163	19638358
Sole, English.....	69424	152889	40463	75081	116535	182918	244156	196105	219116	105852	57765	66968	1527272
Sole, flathead.....	0	0	0	0	7	203	867	714	0	5461	0	0	7252
Sole, petrale.....	479034	232581	88155	84319	46927	62610	129002	144214	149513	79884	83113	322387	1901739
Sole, rex.....	44313	72868	29938	50598	47743	60646	69726	64097	87264	46977	17760	31253	623183
Sole, rock.....	0	0	0	96	263	3493	1370	241	9	2	80	1	5555
Sole, sand.....	9067	4911	5005	8391	69201	91667	72597	129398	78868	13063	1191	3234	487093
Steelhead.....	0	4754	37111	0	0	0	0	53056	157178	0	0	0	252099
Sturgeon, green.....	231	179	194	126	1545	2201	429	782	4121	616	134	115	10673
Sturgeon, white.....	951	29114	55035	1295	0	296	20	62845	31471	14142	5303	0	200472
Sucker, Largescale...	0	0	0	20	8	0	0	0	0	0	0	0	28
Surfperch.....	25	377	761	844	5	328	448	560	0	160	189	13	3710
Tuna, albacore.....	0	0	0	0	0	0	41164	413364	460742	157044	7343	0	1079657
Walleye.....	0	137	5218	0	0	0	0	795	915	0	0	0	7065

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Wolf-eel.....	22	52	64	566	1450	786	348	686	704	175	7	57	4917
Wrymouth.....	0	0	0	0	0	0	44	40	0	0	20	17	121
CRUSTACEANS:													
Barnacle, Gooseneck...	90	250	0	52	130	15	0	15	4	5	0	0	561
Crab, box.....	18	0	0	0	0	0	49	28	304	0	0	13	412
Crab, Dungeness, Bay..	0	0	0	2	0	0	0	0	21359	21277	20031	811	63480
Crab, Dungeness, Oc...	2791502	1378145	550587	619286	508381	187504	239226	101445	0	0	0	5236345	11612421
Crab, mole.....	0	0	5	3	0	0	0	0	0	0	0	0	8
Crab, rock.....	763	810	902	215	553	127	203	104	79	20	125	136	4037
Crab, Tanner.....	0	0	0	0	0	0	4	12	0	0	0	0	16
Crayfish.....	0	0	0	4982	14172	48774	64466	46423	38109	21064	0	0	237990
Shrimp, brine.....	0	0	0	0	6200	9300	12300	2000	0	0	0	0	29800
Shrimp, ghost.....	3028	2232	3464	5452	8908	9091	6948	6312	7144	9623	3865	1973	68040
Shrimp, mud.....	8436	4721	5714	3209	1160	843	724	1213	1444	1812	4886	6833	40995
Shrimp, pink.....	0	0	0	8253871	9349972	7012652	3542496	8273472	7353482	5342969	0	0	49128914
Shrimp, spot.....	0	0	0	0	0	0	74	0	0	0	0	0	74
Water flea (Daphnia)..	0	3000	0	0	0	0	0	0	0	0	0	0	3000
MOLLUSKS:													
Clams, butter.....	0	135	208	714	759	58	180	0	0	1073	416	263	3806
Clams, cockle.....	4736	4525	5144	10928	1363	7117	0	3270	700	300	381	5880	44344
Clams, gaper.....	100	550	0	0	0	0	0	110	45	792	1195	2372	5164
Clams, littleneck.....	47	54	75	539	285	142	764	1432	1496	979	165	54	6032
Clams, softshell.....	0	0	0	216	375	0	445	100	0	0	0	0	1136
Clams, razor.....	2162	1457	2222	8417	7945	4555	1056	0	723	1621	1271	848	32177
Mussels, ocean.....	6436	4146	6223	7825	9812	9796	4768	3340	2097	2276	3314	5015	65048
Mussels, freshwater...	0	0	0	0	0	0	0	0	3773	0	0	0	3773
Octopus.....	1185	1224	596	1100	805	1363	1115	986	725	303	270	5646	15318
Scallops, rock.....	0	125	0	95	0	0	0	0	0	0	0	0	220
Squid.....	0	0	0	0	95994	0	0	0	20	0	11	0	96025

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
OTHER INVERTEBRATES:													
Sea urchins, red.....	217509	357516	217559	744209	856590	865345	819323	818713	1149794	698257	461567	636276	7842658
Bloodworms.....	0	0	0	0	28	0	0	0	0	0	0	0	28
Worms, tube.....	0	0	60	0	893	775	210	0	0	0	0	0	1938
TOTAL	11489738	10183302	7230492	18321268	18960981	15547704	15066293	19626987	20046018	13620762	4600362	10928735	165622642

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

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

1/ OREGON LANDINGS ONLY.

TABLE 7. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT ASTORIA, 1989. 11/21

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cod, Pacific.....	29099	26807	18598	140075	172257	179109	283617	228575	125500	32922	10882	60660	1308101
Flounder, arrowtooth..	80791	111652	72018	102796	141988	281967	375840	303915	227783	126306	91031	101300	2017387
Flounder, starry.....	0	2513	430	8230	155688	62133	17986	47408	26873	1361	755	479	323856
Hagfish.....	0	0	0	0	0	0	55067	11730	0	33183	62597	32628	195205
Hake, Pac. (Whiting)..	0	0	0	4265	6240	0	0	0	0	0	0	0	10505
Halibut, Pacific.....	0	0	0	0	14435	132566	140	55023	262981	181760	0	0	646905
Lingcod.....	19033	22907	14384	31177	77107	146302	116011	199390	230555	145318	40683	55581	1098448
Mackerel.....	0	0	0	0	0	0	0	44	16	0	0	0	60
Pac. Oc. Perch.....	64009	74704	77750	142292	178885	182864	182973	103996	117546	75350	29015	0	1229384
Nominal POP.....	30266	16059	4957	8123	50692	83243	126573	125128	104002	51775	30930	44330	676078
Rockfish, widow.....	609727	707573	382477	517345	159992	255728	291127	394805	463063	197451	20702	66256	4066246
Rockfish, yellowtail..	167371	153479	132340	306256	359074	359880	332738	222186	362647	152850	40824	95084	2734729
Rkfsh, Sebastolobus...	85756	65450	95393	170924	119342	128393	101079	91269	57862	116389	95394	146509	1273760
Rockfish, other spp...	219548	203843	234511	563743	571408	624937	490844	584249	616902	549399	206164	199894	5065442
Sablefish.....	160138	141340	176134	323013	206471	186516	177995	192544	175158	167544	166034	269955	2342842
Salmon, chinook.....	0	0	0	0	18682	10142	5091	11852	9478	74	0	0	55319
Salmon, coho.....	0	0	0	0	0	0	16134	51941	46081	0	0	0	114156
Salmon, pink.....	0	0	0	0	0	18	211	7	7	0	0	0	243
Sanddab, Pacific.....	1278	8043	1129	15083	11916	5124	11876	8683	7001	3217	1005	8175	82730
Shad, American.....	0	0	0	0	0	0	0	0	35	0	0	0	35
Shark, soupfin.....	40	0	0	28	0	177	830	347	27	0	120	447	2016
Shark, spiny dogfish..	0	0	0	0	0	0	0	0	0	490	0	10	500
Shark, thresher.....	30	0	0	0	0	0	0	0	0	0	0	0	30
Shark, other.....	0	0	0	0	0	0	0	122	0	0	0	0	122
Skates and rays.....	0	260	0	0	0	0	8	0	165	0	120	0	553
Sole, Dover.....	580150	601009	823428	1456593	692736	429074	515936	642327	738626	636546	678565	1014320	8809807
Sole, English.....	28284	88336	13594	34402	75248	124345	175753	95522	96606	41901	23976	40637	838604
Sole, flathead.....	0	0	0	0	7	203	867	714	0	5423	0	0	7214
Sole, petrale.....	143819	95464	44929	69034	34798	39235	44040	39170	56695	30639	28105	115961	741889

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Sole, rex.....	29174	34708	13569	36826	36977	46071	52723	48663	64964	31046	10622	17056	413399
Sole, sand.....	0	1081	1540	6528	35635	31193	29697	82776	45032	4010	1130	3229	241851
Sturgeon, green.....	0	29	0	126	408	799	182	169	113	226	76	0	2128
Sturgeon, white.....	0	0	0	0	0	25	20	67	0	0	42	0	154
Tuna, albacore.....	0	0	0	0	0	0	13855	88372	276469	63936	1510	0	444142
Wolf-eel.....	0	0	0	76	426	533	188	299	196	86	0	0	1804
Wrymouth.....	0	0	0	0	0	0	23	25	0	0	20	17	65
CRUSTACEANS:													
Crab, Dungeness, Oc...	1544756	761572	242977	343692	234450	94841	102903	31556	0	0	0	1082425	4439172
Shrimp, pink.....	0	0	0	1469047	2073841	1817147	1050369	1719984	1259031	842414	0	0	10231833
Shrimp, spot.....	0	0	0	0	0	0	74	0	0	0	0	0	74
MOLLUSKS:													
Octopus.....	0	295	115	360	498	672	516	385	438	106	35	20	3440
TOTAL	3784269	3117124	2400273	5750031	5429201	5223237	4573286	5383443	5371852	3491722	1540337	3355473	49420248

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

2/ INCLUDES LANDINGS AT WARRENTON AND HAMMOND.

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

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

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

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

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

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

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	0	0	0	4	17	0	0	268	763	18	19	0	1089
Cod, Pacific.....	21544	7141	323	5398	12655	23837	21092	30688	5978	2472	4223	564	135915
Flounder, arrowtooth..	1521	25935	9745	14327	4624	5670	7814	2304	23240	26088	38196	15049	174513
Flounder, starry.....	0	0	0	0	71	0	1667	6456	6654	177	0	0	14965
Halibut, Pacific.....	0	0	0	0	12451	150	0	0	31539	0	0	0	44140
Lingcod.....	10536	8411	1480	14390	43348	12064	17952	11454	13427	39382	7034	10380	189858
Hackeral.....	0	0	0	0	0	0	1063	456	2	10	0	0	1531
Pac. Oc. Perch.....	3507	2336	0	0	1000	0	31	242	0	0	0	104	7220
Nominal POP.....	29143	116578	30821	84758	63164	50334	75420	52954	72326	60790	14562	57923	708773
Rockfish, widow.....	32581	14194	13087	123437	51419	16372	6409	3835	11528	8061	1735	515	283173
Rockfish, yellowtail..	20241	33321	6125	38106	71399	34845	3654	4733	10182	1367	9052	8763	241788
Rkfsh, Sebastolobus...	2318	6817	5362	13829	6164	1851	4780	6376	6160	8796	7325	12953	82731
Rockfish, other spp...	37378	38503	2722	53502	56380	27128	29064	37421	22467	35686	13886	18705	372842
Sablefish.....	12022	16491	17653	22200	20272	11007	12326	15087	19344	30530	28496	22018	227946
Salmon, chinook.....	0	0	0	0	38131	56780	41316	28071	87555	26638	0	0	278491
Salmon, chum.....	0	0	0	0	16	0	43	0	0	0	0	0	59
Salmon, coho.....	0	0	0	0	0	0	306405	43498	320	0	0	0	350223
Salmon, pink.....	0	0	0	0	112	465	2576	1092	0	0	0	0	4245
Sanddab, Pacific.....	0	0	0	1143	741	562	620	605	2099	1337	1351	0	8458
Shad, American.....	0	0	0	0	0	0	0	0	6	0	0	0	6
Shark, soupfin.....	0	32	0	0	0	0	18	0	27	0	0	0	77
Shark, other.....	0	0	0	0	0	0	0	22	0	0	0	0	22
Skates and rays.....	0	0	0	0	0	0	0	1137	140	0	0	0	1277
Sole, butter.....	0	0	0	0	63	0	0	1227	5	0	0	0	1295
Sole, curlfin (turbot)	0	0	0	0	71	0	0	43	0	0	0	0	114
Sole, Dover.....	38352	60899	55689	160627	65407	33442	36160	68725	91472	106713	215998	94359	1027843
Sole, English.....	698	1897	426	3433	2708	4375	4076	11623	10666	4967	14251	334	59454
Sole, flathead.....	0	0	0	0	0	0	0	0	0	38	0	0	38
Sole, petrale.....	6531	24399	22738	3188	1665	5478	7898	6741	6215	4570	6966	19855	116244

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

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Sole, rex.....	807	3414	952	4222	1879	1856	4522	4218	2167	1663	1355	1340	28295
Sole, sand.....	0	0	0	0	619	61	0	26994	15425	712	22	0	43833
Sturgeon, green.....	0	0	0	0	0	0	0	227	315	20	0	0	562
Tuna, albacore.....	0	0	0	0	0	0	424	0	0	0	0	0	424
Wolf-eel.....	0	0	0	0	104	5	7	355	497	89	7	0	1064
CRUSTACEANS:													
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	0	0	6	18	24
Crab, Dungeness, Oc...	113115	99989	50116	74295	71153	33332	26101	7075	0	0	0	109477	584653
Shrimp, ghost.....	159	64	370	1014	1416	1461	1540	1346	1074	1110	758	305	10617
Shrimp, mud.....	3140	1379	2577	1365	336	255	180	211	410	526	1319	1658	13376
Shrimp, pink.....	0	0	0	380222	446728	390751	131879	367902	334632	188864	0	0	2240978
MOLLUSKS:													
Clams, butter.....	0	0	0	505	570	0	180	0	0	0	40	0	1295
Clams, cockle.....	4586	4525	5000	10490	583	7110	0	3270	700	300	61	5700	42325
Clams, gaper.....	0	0	0	0	0	0	0	0	0	0	100	0	100
Clams, littleneck.....	47	54	75	539	285	142	764	1432	1496	899	149	48	5930
Octopus.....	0	37	100	40	19	238	77	197	79	57	10	18	872
Squid.....	0	0	0	0	0	0	0	0	0	0	11	0	11
OTHER INVERTEBRATES:													
TOTAL	336226	466416	225261	1011054	975570	719571	746498	748285	778910	551880	366932	380086	7308689

TABLE 10. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT NETARTS BAY, 1969.

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

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	0	6	143	316	187	47	38	97	0	9	38	0	881
Halibut, Pacific.....	0	0	0	0	0	270	0	0	0	0	0	0	270
Lingcod.....	0	903	3974	6893	1697	665	1775	2597	566	1838	494	0	21402
Mackeral.....	0	0	0	0	0	0	2331	463	0	0	0	0	2794
Rockfish, other spp...	0	0	1474	6170	8404	4240	5472	8482	2491	1603	22	0	38358
Salmon, chinook.....	0	0	0	0	2331	1514	24359	20462	16995	3003	0	0	68664
Salmon, chum.....	0	0	0	0	58	0	16	18	0	0	0	0	92
Salmon, coho.....	0	0	0	0	0	0	205919	46771	3252	0	0	0	255942
Salmon, pink.....	0	0	0	0	0	0	2527	932	0	0	0	0	3459
Wolf-eel.....	0	0	0	0	8	12	61	6	0	0	0	0	87
CRUSTACEANS:													
Crab, Dungeness, Oc...	0	0	0	0	84	97	0	85	0	0	0	0	266
Shrimp, ghost.....	146	86	158	213	424	402	652	888	1123	1515	423	257	6287
TOTAL	146	995	5749	13592	13193	7247	243150	80801	24427	7968	977	257	398502

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

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

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	401	278	223	3204	4518	294	607	207	22	33	262	0	10049
Flounder, arrowtooth..	0	4	0	0	0	0	0	1	0	0	0	0	5
Flounder, starry.....	0	0	0	0	0	0	0	3	0	0	0	0	3
Greenling.....	0	0	0	2	31	47	40	29	0	0	0	0	149
Halibut, Pacific.....	0	0	0	0	0	1824	0	0	0	0	0	0	1824
Lingcod.....	141	1774	1690	4833	4122	1013	1508	655	547	189	392	274	17139
Mackerel.....	0	0	0	0	0	0	1300	45	0	0	0	0	1345
Rockfish, yellowtail..	0	0	0	1	0	0	0	0	0	0	0	0	1
Rockfish, other spp...	128	551	2201	10620	9026	6487	13108	5134	268	181	66	90	47860
Sablefish.....	0	1609	0	5305	0	0	14	0	0	0	0	0	6928
Salmon, chinook.....	0	0	0	0	2747	1316	6110	3303	1442	2020	0	0	16938
Salmon, coho.....	0	0	0	0	0	0	99143	1981	0	0	0	0	101124
Salmon, pink.....	0	0	0	0	0	0	392	47	0	0	0	0	439
Shark, sixgill.....	0	0	0	0	0	36	0	0	0	0	0	0	36
Shark, soupfin.....	0	0	0	0	0	0	0	0	0	0	30	0	30
Shark, spiny dogfish..	0	0	0	18	4	0	0	12	0	0	0	0	34
Sole, Dover.....	0	0	0	0	0	0	4	0	0	0	0	0	4
Surfperch.....	0	0	1	0	0	0	0	0	0	0	0	0	1
Wolf-eel.....	12	14	20	267	516	108	0	0	0	0	0	0	937
CRUSTACEANS:													
Barnacle, Gooseneck...	0	0	0	52	130	15	0	15	4	5	0	0	221
Crab, Dungeness, Oc...	23566	13354	5207	6170	2530	1954	380	0	0	0	0	8399	61560
Crab, rock.....	0	0	0	0	4	0	0	0	0	0	0	0	4
MOLLUSKS:													
Mussels, ocean.....	0	0	60	295	311	338	575	264	203	126	196	105	2473
Octopus.....	48	0	107	164	10	8	0	0	0	0	0	0	337
OTHER INVERTEBRATES:													
Sea urchins, red.....	0	0	0	0	0	0	9313	0	0	0	0	0	9313
TOTAL	24296	17584	9509	30931	23949	13440	132494	11696	2486	2554	946	8868	278753

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	0	7	0	112	235	28	379	106	438	0	0	312	1617
Cod, Pacific.....	7502	718	4	1240	8069	38013	31643	159150	12142	2970	180	335	261966
Flounder, arrowtooth..	6490	5536	15078	5297	14471	16364	23219	19229	10063	28171	12886	4676	161480
Flounder, starry.....	282	1246	1567	249	11024	22711	23055	561	8436	306	7	185	69629
Greenling.....	1	0	0	15	1	0	2	1	0	0	0	0	20
Hagfish.....	0	0	0	0	0	0	0	0	82396	66586	0	0	148982
Hake, Pac. (Whiting)..	0	0	0	60849	0	0	0	0	49168	42129	31882	0	184028
Halibut, Pacific.....	0	200	0	0	471	123440	4527	57	19275	298	23	49	148340
Herring, Pacific.....	0	529241	138	16734	0	0	2	0	0	0	0	0	546115
Lingcod.....	6745	12663	15432	32202	47986	46325	125699	101776	120572	28662	12657	13064	563803
Mackerel.....	0	0	0	0	0	0	817	3816	10	0	0	0	4643
Ratfish.....	0	0	0	0	0	0	76	34	0	0	0	0	110
Pac. Oc. Perch.....	25026	47849	22277	22642	15322	18595	24794	23330	23403	12175	5086	0	240499
Nominal POP.....	244080	211059	81610	84568	25013	52656	64824	97120	42152	31637	16503	38349	989571
Rockfish, widow.....	2001541	1855165	1708502	1274158	137046	55025	402267	500996	451730	194596	22268	35712	8639006
Rockfish, yellowtail..	53781	66677	35861	45051	30483	33947	43503	44498	40520	19027	12145	14779	440272
Rkfish, Sebastolobus...	35829	33898	25754	16773	26371	10134	40230	44414	17935	54268	23437	33078	362121
Rockfish, other spp...	216966	291303	97633	291797	332014	223004	306191	521444	397313	230067	158543	245049	3311324
Sablefish.....	37793	42541	28031	95366	297645	370703	373537	110969	88195	114986	41493	31257	1632516
Salmon, chinook.....	0	0	0	0	249853	169037	246425	109894	45573	51697	3261	0	875745
Salmon, chum.....	0	0	0	0	77	133	31	0	0	0	0	0	241
Salmon, coho.....	0	0	0	0	0	0	532198	42547	0	0	0	0	574745
Salmon, pink.....	0	0	0	0	13	113	3210	848	0	0	0	0	4184
Sanddab, Pacific.....	13542	15126	5605	4173	0	0	1574	6565	5317	1080	0	3300	56282
Sculpin.....	0	0	0	0	0	0	2	0	0	0	0	0	2
Irish Lord, Brown.....	0	0	0	2	0	0	0	0	0	0	0	0	2
Irish Lord, Red.....	0	0	0	0	2	0	0	0	0	0	0	0	2
Sculpin, Buffalo.....	0	0	0	5	4	0	1	0	0	0	0	0	10
Shark, sixgill.....	0	0	0	0	0	0	0	40	0	0	0	0	40

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

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Shark, soupfin.....	0	186	0	0	0	273	12	19	0	110	0	0	600
Shark, spiny dogfish..	0	0	0	0	0	53	77	31	3	0	0	0	164
Shark, other.....	0	0	0	0	0	0	15	0	0	0	0	0	15
Skates and rays.....	675	1386	837	0	272	799	665	668	711	0	72	111	6196
Sole, curlfin (turbot)	0	0	0	21	2401	52	1	0	0	0	0	7	2482
Sole, Dover.....	127831	90367	58649	33263	68612	58834	177184	153882	232946	409953	216864	144662	1773047
Sole, English.....	8135	19136	4838	5567	15727	25567	35564	56657	72357	30892	7023	8699	290162
Sole, petrale.....	41694	17477	4345	1803	5555	12646	66531	79375	59457	26821	12001	26843	354548
Sole, rex.....	9120	20409	7080	3573	2678	5916	6197	7426	14892	9177	2568	4902	93938
Sole, rock.....	0	0	0	0	263	157	17	4	0	2	80	1	524
Sole, sand.....	1707	962	1742	1700	32703	50532	11352	363	12870	1100	39	5	115095
Sturgeon, green.....	231	123	194	0	1137	1087	84	0	432	30	0	115	3433
Sturgeon, white.....	53	0	0	0	0	271	0	0	0	0	0	0	324
Surfperch.....	25	1	0	18	5	328	287	518	0	0	0	0	1182
Tuna, albacore.....	0	0	0	0	0	0	16622	83231	126834	31921	5833	0	266441
Wolf-eel.....	0	32	44	223	322	102	21	26	11	0	0	57	638
Wrymouth.....	0	0	0	0	0	0	10	15	0	0	0	0	25
CRUSTACEANS:													
Crab, box.....	18	0	0	0	0	0	49	28	304	0	0	13	412
Crab, Dungeness, Bay..	0	0	0	2	0	0	0	0	602	481	7	0	1092
Crab, Dungeness, Oc...	637200	215345	99146	88265	53568	14540	15932	2962	0	0	0	1531231	2658189
Crab, rock.....	763	810	902	215	549	127	203	104	79	20	125	136	4033
Crab, Tanner.....	0	0	0	0	0	0	4	12	0	0	0	0	16
Shrimp, pink.....	0	0	0	3137197	3659089	2247740	1056304	3199856	2892316	2171063	0	0	18363565
MOLLUSKS:													
Clams, gaper.....	100	550	0	0	0	0	0	0	0	200	780	960	2590
Clams, softshell.....	0	0	0	0	200	0	0	0	0	0	0	0	200
Mussels, ocean.....	0	2000	0	0	0	0	0	0	0	30	0	0	2030
Octopus.....	295	61	142	185	80	63	408	335	173	45	11	206	2004

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

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Squid.....	0	0	0	0	95994	0	0	0	20	0	0	0	96014
OTHER INVERTEBRATES:													
Sea urchins, red.....	0	0	0	0	0	0	63883	0	1505	12503	4338	6764	88993
TOTAL	3477425	3482074	2215411	5223265	5135260	3599315	3701628	5372927	4830150	3573023	590112	2144857	43345447

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
CRUSTACEANS:													
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	5391	5969	3689	299	15348
Shrimp, ghost.....	2550	1674	1369	3115	4606	4996	3261	2922	3455	5088	1604	1072	36212
Shrimp, mud.....	767	321	102	34	24	0	0	0	0	0	0	0	1248
MOLLUSKS:													
Clams, cockle.....	0	0	130	288	0	0	0	0	0	0	320	130	918
Clams, softshell.....	0	0	0	0	75	0	0	0	0	0	0	0	75
Hussels, ocean.....	0	150	0	180	0	0	0	50	0	100	0	0	480
TOTAL	3317	2145	2101	3617	4705	4996	3261	2972	8846	11157	5613	1551	54281

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Lingcod.....	0	0	0	0	0	0	33	137	313	2	0	0	485
Rockfish, widow.....	0	0	0	0	0	0	0	92	80	0	0	0	172
Rockfish, yellowtail..	0	0	0	0	0	0	0	0	160	0	0	0	160
Rockfish, other spp...	0	0	0	0	50	44	120	359	1499	460	0	0	2552
Sablefish.....	0	44418	26595	132609	170792	61637	80758	0	0	0	0	0	516809
Salmon, chinook.....	0	0	0	0	11369	16229	114895	6539	1016	1071	0	0	151119
Salmon, coho.....	0	0	0	0	0	0	99815	3390	0	0	0	0	103205
Salmon, pink.....	0	0	0	0	0	15	74	6	0	0	0	0	95
Shad, American.....	0	0	0	0	1600	9830	203	0	0	0	0	0	11633
Tuna, albacore.....	0	0	0	0	0	0	3101	2261	660	0	0	0	6022
CRUSTACEANS:													
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	2652	1127	102	0	3881
Crab, Dungeness, Oc...	62316	28278	19466	17457	11901	4999	9294	3525	0	0	0	93394	250630
Shrimp, ghost.....	0	0	0	0	5	315	28	0	0	15	0	0	363
MOLLUSKS:													
Clams, softshell.....	0	0	0	150	0	0	350	100	0	0	0	0	600
Mussels, ocean.....	0	0	365	200	565	200	225	0	0	0	0	0	1555
TOTAL	62316	72696	46426	150416	196282	93269	308896	16409	6380	2695	102	93394	1049281

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	0	0	0	0	0	0	0	0	65	0	0	0	65
Cod, Pacific.....	0	0	0	0	0	0	144	0	0	0	0	0	144
Flounder, arrowtooth..	0	0	0	0	0	8	86	0	0	0	0	0	94
Flounder, starry.....	0	0	0	0	0	0	317	0	28	0	0	0	345
Halibut, Pacific.....	0	0	0	0	0	2469	28205	0	0	0	0	0	30674
Herring, Pacific.....	0	0	0	0	0	276	0	0	0	0	0	0	276
Lingcod.....	7	379	0	1869	215	0	230	243	1375	123	0	0	4441
Nominal POP.....	0	0	0	0	0	0	0	0	0	215	0	0	215
Rockfish, yellowtail..	0	0	0	0	0	0	0	0	3	0	0	0	3
Rkfsh, Sebastolobus...	0	0	0	0	0	0	78	0	0	0	0	0	78
Rockfish, other spp...	0	145	0	1194	1281	150	2137	1415	2041	737	0	0	9100
Sablefish.....	0	0	7932	46998	97807	86	18696	0	0	0	0	0	171519
Salmon, chinook.....	0	0	0	0	131372	61962	134761	40861	5943	4026	0	0	378925
Salmon, chum.....	0	0	0	0	100	0	0	0	0	0	0	0	100
Salmon, coho.....	0	0	0	0	0	0	190177	18324	0	0	0	0	208501
Salmon, pink.....	0	0	0	0	151	73	834	96	0	0	0	0	1154
Shad, American.....	0	0	0	0	13417	25600	0	0	0	0	0	0	39017
Skates and rays.....	0	0	0	70	0	3	0	0	0	0	0	0	73
Sole, curlfin (turbot)	0	0	0	0	0	0	6	0	0	0	0	0	6
Sole, Dover.....	0	0	0	0	0	0	67	0	21	0	0	0	88
Sole, petrale.....	0	0	0	0	0	0	22	0	0	0	0	0	22
Sole, sand.....	0	0	0	0	0	0	596	0	150	0	0	0	746
Tuna, albacore.....	0	0	0	0	0	0	2134	26813	15527	45919	0	0	90393
Wolf-eel.....	0	0	0	0	2	0	0	0	0	0	0	0	2
Wrymouth.....	0	0	0	0	0	0	11	0	0	0	0	0	11
CRUSTACEANS:													
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	4280	1179	1795	0	7254
Crab, Dungeness, Oc...	102733	47268	21958	13286	37502	14995	57970	32415	0	0	0	308684	636811
Shrimp, pink.....	0	0	0	0	0	0	0	34866	17291	24026	0	0	76183

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

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
MOLLUSKS:													
Clams, cockle.....	150	0	0	0	0	0	0	0	0	0	0	0	150
Mussels, ocean.....	5836	1020	5449	6270	8330	8683	3493	2926	1394	220	2818	4610	51049
TOTAL	108726	48812	35339	69687	290177	114305	439964	157959	48118	76445	4613	313294	1707439

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	0	0	0	102	314	0	0	0	14	0	0	5	435
Cod, Pacific.....	2646	169	493	26	1074	4099	1603	677	1208	1586	80	620	14281
Flounder, arrowtooth..	6110	7218	4671	4349	10225	15771	25503	17191	24002	5560	12368	11649	144617
Flounder, starry.....	0	345	20	244	25	3158	7265	4180	1449	258	0	2919	19883
Grenadier.....	0	0	0	7843	0	0	0	931	9424	5225	1508	0	24931
Hake, Pac. (Whiting)..	0	0	0	0	0	0	0	0	0	0	1381	0	1381
Halibut, Pacific.....	0	0	0	0	0	23647	0	0	0	0	0	0	23647
Lingcod.....	9531	27298	19273	30893	48155	56086	61920	40922	94813	54997	9140	19091	472119
Mackerel.....	0	0	0	0	0	36	31	3	0	0	0	0	70
Pollock, walleye.....	0	47	0	0	0	0	0	0	0	0	0	0	47
Pac. Oc. Perch.....	9991	12068	3006	7306	13622	15339	13979	1783	1225	1943	0	0	80262
Nominal POP.....	49402	42445	33905	54363	46960	59819	52954	59990	57212	53661	32375	46375	589461
Rockfish, widow.....	528456	166418	69344	6066	40908	67065	90804	71286	183616	77240	7219	10498	1318920
Rockfish, yellowtail..	120130	70023	25157	48464	44503	13933	18018	18065	69189	80694	3906	944	513026
Rkfish, Sebastolobus...	114472	219941	184846	103296	93345	56393	276084	189316	145041	146676	201190	314239	2044841
Rockfish, other spp...	236186	179794	80911	144213	162225	179728	152410	105170	178552	144418	75297	134185	1773089
Sablefish.....	274128	184227	194524	339695	363430	309381	377055	159490	148092	131519	132912	195908	2810361
Salmon, chinook.....	0	0	0	0	565497	316056	220585	340282	60171	57473	2902	0	1562966
Salmon, chum.....	0	0	0	0	0	0	6	0	0	0	0	0	6
Salmon, coho.....	0	0	0	0	0	0	277871	108479	0	0	0	0	386350
Salmon, pink.....	0	0	0	0	1055	2097	1118	700	0	0	0	0	4970
Sanddab, Pacific.....	702	4103	1945	422	1325	1821	296	425	1219	96	0	0	12354
Shark, sixgill.....	0	11	0	0	0	0	0	0	0	0	0	0	11
Shark, soupfin.....	0	139	0	0	0	0	0	0	0	0	0	0	139
Skates and rays.....	0	220	0	0	0	0	0	0	0	0	0	0	220
Sole, curlfin (turbot)	0	166	52	210	0	990	1297	83	0	0	0	0	2818
Sole, Dover.....	1085689	781596	625621	634245	510389	380435	372093	473891	523089	501456	398349	691852	6978705
Sole, English.....	25505	38425	18201	31484	22193	28226	27781	31093	35337	17977	11731	16363	304316
Sole, petrale.....	258774	76144	15517	10064	3871	4296	9366	18231	26104	14509	31379	148121	616376

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

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Sole, rex.....	8461	7558	6902	2052	4104	3718	5064	0	186	1343	1595	5580	46563
Sole, rock.....	0	0	0	96	0	3336	1353	237	0	0	0	0	5022
Sole, sand.....	0	399	124	663	244	9881	30952	19245	5391	2541	0	0	69440
Sturgeon, green.....	0	0	0	0	0	315	163	106	99	0	0	0	683
Surfperch.....	0	0	0	34	0	0	0	0	0	0	0	0	34
Tuna, albacore.....	0	0	0	0	0	0	3028	203441	24046	13262	0	0	243777
Wolf-eel.....	10	0	0	0	72	26	71	0	0	0	0	0	179
CRUSTACEANS:													
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	8434	12449	14378	494	35755
Crab, Dungeness, Oc...	135740	86285	35927	27581	37005	9285	19937	19170	0	0	0	958693	1329623
Shrimp, ghost.....	119	298	550	815	832	937	1114	756	592	464	475	222	7174
Shrimp, mud.....	0	0	100	0	0	0	0	0	0	0	0	0	100
Shrimp, pink.....	0	0	0	2535101	2469964	2005530	835573	1959763	1999239	1478106	0	0	13283276
MOLLUSKS:													
Clams, butter.....	0	135	208	209	189	58	0	0	0	1073	376	263	2511
Clams, cockle.....	0	0	14	150	780	7	0	0	0	0	0	0	951
Clams, gaper.....	0	0	0	0	0	0	0	110	45	592	315	1412	2474
Clams, littleneck.....	0	0	0	0	0	0	0	0	0	0	16	6	22
Clams, softshell.....	0	0	0	30	100	0	95	0	0	0	0	0	225
Mussels, ocean.....	0	226	349	180	6	25	325	0	0	0	0	0	1111
Octopus.....	28	89	0	26	13	22	33	0	0	0	0	51	262
OTHER INVERTEBRATES:													
Sea urchins, red.....	0	34685	29169	0	0	0	0	0	0	0	0	0	63854
Bloodworms.....	0	0	0	0	28	0	0	0	0	0	0	0	28
TOTAL	2866080	1940492	1350889	3990222	4443346	3572291	2885977	3845016	3597789	2805120	938892	2559490	34795604

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Halibut, Pacific.....	0	0	0	0	0	3091	0	0	0	0	0	0	3091
Lingcod.....	0	0	0	0	10	218	301	61	102	8	90	92	902
Rkfsh, Sebastolobus...	0	678	0	0	0	0	0	0	0	0	0	0	678
Rockfish, other spp...	0	725	0	0	2422	207	3922	3810	1532	550	166	0	13334
Sablefish.....	0	17801	0	25517	35978	20281	31257	0	0	0	0	0	130834
Salmon, chinook.....	0	0	0	0	23281	5375	34891	81692	3912	4238	184	0	153573
Salmon, coho.....	0	0	0	0	0	0	52336	22313	0	0	0	0	74649
Salmon, pink.....	0	0	0	0	36	84	76	135	7	0	0	0	338
Tuna, albacore.....	0	0	0	0	0	0	0	1502	8054	0	0	0	9556
CRUSTACEANS:													
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	0	72	54	0	126
Crab, Dungeness, Oc...	511	306	469	6383	462	302	194	223	0	0	0	1222	10072
MOLLUSKS:													
Clams, softshell.....	0	0	0	36	0	0	0	0	0	0	0	0	36
Mussels, ocean.....	0	0	0	400	600	0	150	0	0	1800	0	0	2950
TOTAL	511	19510	469	32336	62789	29558	123127	109756	13607	6668	494	1314	400139

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	220	310	0	0	0	16	0	38	0	0	0	0	584
Flounder, arrowtooth..	0	0	0	0	0	10	0	0	0	0	0	0	10
Halibut, Pacific.....	0	0	0	0	0	16871	0	0	0	0	0	0	16871
Lingcod.....	670	3801	4571	7981	3127	3870	3786	11018	13688	14276	2916	485	70189
Rockfish, other spp...	827	6173	3761	14650	13225	15272	48151	24864	69629	25938	3960	7063	233513
Sablefish.....	0	0	0	2459	0	40509	3290	0	0	0	0	0	46258
Salmon, chinook.....	0	0	0	0	26250	1970	26687	150152	18025	44595	53913	0	321592
Salmon, coho.....	0	0	0	0	0	137	36297	30723	0	0	0	0	67157
Salmon, pink.....	0	0	0	0	84	54	615	171	0	0	0	0	924
Shark, sixgill.....	0	0	0	0	0	0	0	0	0	0	48	0	48
Wolf-eel.....	0	6	0	0	0	0	0	0	0	0	0	0	6
CRUSTACEANS:													
Crab, Dungeness, Oc...	14623	24857	22158	14888	20466	6037	4947	4083	0	0	0	273402	385461
Shrimp, pint.....	0	0	0	41087	48305	56111	66751	52309	37754	0	0	0	302317
MOLLUSKS:													
Mussels, ocean.....	0	0	0	0	0	0	0	100	200	0	300	300	900
Octopus.....	0	0	0	0	0	0	0	0	0	0	0	1617	1617
Scallops, rock.....	0	125	0	85	0	0	0	0	0	0	0	0	210
OTHER INVERTEBRATES:													
Sea urchins, red.....	214708	305597	152633	573432	716967	670434	683302	666426	629644	431978	394958	591531	6031610
TOTAL	231048	346869	183123	654582	828424	811291	873826	939884	768940	516787	456095	874398	7479267

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Lingcod.....	0	0	0	0	242	459	799	305	1200	258	52	195	3510
Rockfish, other spp...	0	0	0	0	700	919	2178	802	268	246	117	167	5417
Salmon, chinook.....	0	0	0	0	2982	207	0	2412	5070	0	0	0	10671
Tuna, albacore.....	0	0	0	0	0	0	0	296	0	0	0	0	296
CRUSTACEANS:													
Crab, Dungeness, Oc...	0	0	0	0	0	0	0	0	0	0	0	6579	6579
Crab, mole.....	0	0	5	3	0	0	0	0	0	0	0	0	8
MOLLUSKS:													
Octopus.....	0	0	0	0	0	0	0	0	0	0	0	24	24
Scallops, rock.....	0	0	0	10	0	0	0	0	0	0	0	0	10
OTHER INVERTEBRATES:													
Sea urchins, red.....	2801	17234	35757	170777	139623	194911	62825	152287	518645	190380	62271	37981	1585492
TOTAL	2801	17234	35762	170790	143547	196496	65802	156102	525203	190884	62440	44946	1612007

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	0	45	0	0	0	0	0	0	0	0	0	0	45
Cod, Pacific.....	104	0	0	0	0	22	0	0	0	10	8	0	144
Flounder, arrowtooth..	915	1735	0	62	0	50	770	440	940	1554	1401	4	7871
Flounder, starry.....	551	222	74	0	0	0	110	0	0	290	25	0	1272
Grenadier.....	240	1090	7250	4715	7665	10990	13250	17270	9735	5630	7905	2310	88050
Halibut, Pacific.....	0	0	0	0	0	262	0	0	0	0	0	0	262
Lingcod.....	2456	9112	937	3588	28640	32638	13302	10240	9898	15385	16120	6191	148507
Nominal POP.....	2580	17631	5210	6040	4575	6025	4170	12736	8750	5202	6952	2415	82286
Rockfish, widow.....	110070	133670	99810	90130	103910	81730	62265	95920	119355	22795	4095	5280	929030
Rockfish, yellowtail..	0	855	0	3800	42135	45430	6765	18505	0	8415	9695	11150	146750
Rkfish, Sebastolobus...	114509	96245	140105	194505	181000	142065	154715	220785	107530	105677	219661	123145	1799942
Rockfish, other spp...	8947	12175	4545	7746	48964	28767	15907	22153	12901	22547	17276	11302	213230
Sablefish.....	42560	38512	83495	90985	62355	58348	84746	93243	87560	64741	70435	41855	818835
Salmon, chinook.....	0	0	0	0	61792	31149	1307	29188	60442	260	334	0	194472
Salmon, coho.....	0	0	0	0	0	5215	353	13	0	0	0	0	5581
Salmon, pink.....	0	0	0	0	0	46	6	0	0	0	0	0	52
Sanddab, Pacific.....	19	288	727	90	29	15	686	260	0	670	270	45	3099
Shark, soupfin.....	0	41	0	0	64	42	0	0	0	46	188	21	402
Smelt.....	0	0	0	0	725	3202	4744	1015	0	0	0	0	9686
Smelt, Whitebait.....	0	0	0	0	1229	90	3193	0	0	0	0	0	4512
Sole, butter.....	0	0	0	0	0	0	0	0	0	1170	0	0	1170
Sole, Dover.....	93403	81469	102129	77300	74607	66822	68379	79434	105630	138193	102003	59470	1046864
Sole, English.....	6802	5095	3404	195	659	405	982	1210	4150	10115	784	935	34736
Sole, petrale.....	28216	19097	626	230	1038	955	1145	697	1042	3345	4662	11607	72660
Sole, rex.....	5751	6779	1535	3925	2105	3085	1220	3790	5055	3748	1620	2375	40988
Sole, rock.....	0	0	0	0	0	0	0	0	9	0	0	0	9
Sole, sand.....	7360	2469	1599	0	0	0	0	0	0	4700	0	0	16128
Sturgeon, green.....	0	27	0	0	0	0	0	0	0	0	0	0	27
Surfperch.....	0	376	760	792	0	0	161	42	0	160	189	13	2493

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

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Tuna, albacore.....	0	0	0	0	0	0	0	7448	9152	2006	0	0	16606
CRUSTACEANS:													
Crab, Dungeness, Oc...	156942	100891	53163	27269	39260	7122	1568	351	0	0	0	862839	1249405
Shrimp, pink.....	0	0	0	691217	652045	495373	401620	938792	813219	638496	0	0	4630762
MOLLUSKS:													
Octopus.....	814	742	132	325	185	360	81	69	35	95	214	3710	6762
OTHER INVERTEBRATES:													
Sea urchins, red.....	0	0	0	0	0	0	0	0	0	63396	0	0	63396
TOTAL	582244	528566	505501	1202914	1312982	1020208	841465	1553601	1355403	1118646	463837	1144667	11630034

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

SPECIES	OCEAN TROLL	TUNA BAITBOAT	COASTAL GILLNET	COASTAL SETNET	COL. R. GILLNET	COL. R. SETNET	COL. R. SETLINE	COL. R. DIPNET	COL. R. HOOK&LINE	SMELT TRAWL
FISH:										
Anchovy, northern.....	0	0	0	0	30	0	0	0	0	0
Cabezon.....	145	0	0	0	0	0	0	0	0	0
Squawfish, Northern...	0	0	0	0	0	0	0	0	0	0
Cod, Pacific.....	23	0	0	0	0	0	0	0	0	0
Flounder, arrowtooth..	13	0	0	0	0	0	0	0	0	0
Flounder, starry.....	49	0	0	0	13303	0	0	0	0	0
Greenling.....	0	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)..	0	0	0	0	0	0	0	0	0	0
Halibut, Pacific.....	1704	0	0	0	0	0	0	0	0	0
Herring, Pacific.....	0	0	0	0	0	0	0	0	0	0
Lamprey.....	0	0	0	0	0	0	0	0	0	0
Lingcod.....	52220	0	0	0	0	0	0	0	0	0
Mackerel.....	6543	0	0	0	0	0	0	0	0	0
Pollock, walleye.....	0	0	0	0	0	0	0	0	0	0
Ratfish.....	0	0	0	0	0	0	0	0	0	0
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.....	0	0	0	0	0	0	0	0	0	0
Rockfish, yellowtail..	230	0	0	0	0	0	0	0	0	0
Rkfsh, Sebastolobus...	0	0	0	0	0	0	0	0	0	0
Rockfish, other spp...	143301	0	0	0	0	0	0	0	0	0
Sablefish.....	272	0	0	0	0	0	0	0	0	0
Salmon, chinook.....	4062337	0	0	0	2465988	1072360	0	9854	0	0
Salmon, chum.....	498	0	0	0	3666	0	0	0	0	0
Salmon, coho.....	2294847	0	0	0	1537236	3721	0	815	0	0
Salmon, pink.....	20295	0	0	0	0	0	0	0	0	0

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

SPECIES	OCEAN TROLL	TUNA BAITBOAT	COASTAL GILLNET	COASTAL SETNET	COL. R. GILLNET	COL. R. SETNET	COL. R. SETLINE	COL. R. DIPNET	COL. R. HOOK&LINE	SHELT TRAWL
Salmon, sockeye.....	0	0	0	0	0	59	0	0	0	0
Sanddab, Pacific.....	14	0	0	0	0	0	0	0	0	0
Sculpin.....	0	0	0	0	0	0	0	0	0	0
Irish Lord, Brown.....	0	0	0	0	0	0	0	0	0	0
Irish Lord, Red.....	0	0	0	0	0	0	0	0	0	0
Sculpin, Buffalo.....	0	0	0	0	0	0	0	0	0	0
Shad, American.....	0	0	39017	11633	143825	0	0	0	0	0
Shark, sixgill.....	0	0	0	0	0	0	0	0	0	0
Shark, soupfin.....	18	0	0	0	0	0	0	0	0	0
Shark, spiny dogfish..	3	0	0	0	0	0	0	0	0	0
Shark, thresher.....	0	0	0	0	0	0	0	0	0	0
Shark, other.....	37	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	274	0	0	5997	0	13697
Smelt, Whitebait.....	0	0	0	0	0	0	0	0	0	0
Sole, butter.....	0	0	0	0	0	0	0	0	0	0
Sole, curlfin (turbot)	0	0	0	0	0	0	0	0	0	0
Sole, Dover.....	4	0	0	0	0	0	0	0	0	0
Sole, English.....	0	0	0	0	0	0	0	0	0	0
Sole, flathead.....	0	0	0	0	0	0	0	0	0	0
Sole, petrale.....	171	0	0	0	0	0	0	0	0	0
Sole, rex.....	8	0	0	0	0	0	0	0	0	0
Sole, rock.....	11	0	0	0	0	0	0	0	0	0
Sole, sand.....	8	0	0	0	0	0	0	0	0	0
Steelhead.....	0	0	0	0	0	237107	0	14992	0	0
Sturgeon, green.....	0	0	0	0	3840	0	0	0	0	0
Sturgeon, white.....	0	0	0	0	121915	75346	2833	0	0	0
Sucker, largescale....	0	0	0	0	0	0	0	0	0	0
Surfperch.....	0	0	0	0	0	0	0	0	0	0

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

SPECIES	OCEAN TROLL	TUNA BAITBOAT	COASTAL GILLNET	COASTAL SETNET	COL. R. GILLNET	COL. R. SETNET	COL. R. SETLINE	COL. R. DIPNET	COL. R. HOOK&LINE	SHELT TRAWL
Tuna, albacore.....	1079657	0	0	0	0	0	0	0	0	0
Walleye.....	0	0	0	0	0	7065	0	0	0	0
Wolf-eel.....	22	0	0	0	0	0	0	0	0	0
Wrymouth.....	0	0	0	0	0	0	0	0	0	0
CRUSTACEANS:										
Barnacle, Gooseneck...	0	0	0	0	0	0	0	0	0	0
Crab, box.....	0	0	0	0	0	0	0	0	0	0
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	0	0
Crab, Dungeness, 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
Crab, Tanner.....	0	0	0	0	0	0	0	0	0	0
Crayfish.....	0	0	0	0	0	0	0	0	0	0
Shrimp, brine.....	0	0	0	0	0	0	0	0	0	0
Shrimp, ghost.....	0	0	0	0	0	0	0	0	0	0
Shrimp, mud.....	0	0	0	0	0	0	0	0	0	0
Shrimp, pink.....	0	0	0	0	0	0	0	0	0	0
Shrimp, spot.....	0	0	0	0	0	0	0	0	0	0
Water flea (Daphnia)..	0	0	0	0	0	0	0	0	0	0
MOLLUSKS:										
Clams, butter.....	0	0	0	0	0	0	0	0	0	0
Clams, cockle.....	0	0	0	0	0	0	0	0	0	0
Clams, gaper.....	0	0	0	0	0	0	0	0	0	0
Clams, littleneck....	0	0	0	0	0	0	0	0	0	0
Clams, softshell.....	0	0	0	0	0	0	0	0	0	0
Clams, razor.....	0	0	0	0	0	0	0	0	0	0
Hussels, ocean.....	0	0	0	0	0	0	0	0	0	0
Hussels, freshwater...	0	0	0	0	0	0	0	0	0	0
Octopus.....	0	0	0	0	0	0	0	0	0	0

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

SPECIES	OCEAN TROLL	TUNA BAITBOAT	COASTAL GILLNET	COASTAL SETNET	COL. R. GILLNET	COL. R. SETNET	COL. R. SETLINE	COL. R. DIPNET	COL. R. HOOK&LINE	SHELT TRAWL
Scallops, rock.....	0	0	0	0	0	0	0	0	0	0
Squid.....	0	0	0	0	0	0	0	0	0	0
OTHER INVERTEBRATES:										
Sea urchins, red.....	0	0	0	0	0	0	0	0	0	0
Bloodworms.....	0	0	0	0	0	0	0	0	0	0
Worms, tube.....	0	0	0	0	0	0	0	0	0	0
TOTAL	7662430	0	39017	11633	4289977	1395658	2833	31658	0	13697

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

SPECIES	FISH POT	BOTTOM LONGLINE	PELAGIC LONGLINE	OTHER HOOK&LINE	GROUNDFISH TRAWL	MIDWATER TRAWL	SHRIMP TRAWL	SQUID NET	OCEAN GILLNET
FISH:									
Anchovy, northern....	0	0	0	0	0	0	0	0	0
Cabazon.....	0	238	0	12042	1288	0	0	0	0
Squawfish, Northern..	0	0	0	0	0	0	0	0	0
Cod, Pacific.....	5	780	0	0	1705161	2510	12072	0	0
Flounder, arrowtooth.	609	416	0	13	2495404	0	9522	0	0
Flounder, starry....	0	0	0	26	429814	0	10	0	0
Greenling.....	0	0	0	169	0	0	0	0	0
Grenadier.....	0	0	0	0	112981	0	0	0	0
Hagfish.....	344175	0	0	0	0	0	12	0	0
Hake, Pac. (Whiting).	0	0	0	0	7621	188293	0	0	0
Halibut, Pacific.....	0	912479	0	1064	577	0	200	0	0
Herring, Pacific.....	0	0	0	622	0	0	0	0	0
Lamprey.....	0	0	0	0	0	0	0	0	0
Lingcod.....	110	61807	0	194681	2192059	3658	85780	0	0
Hackeral.....	0	0	0	70	76	0	3754	0	0
Pollock, walleye....	0	0	0	0	47	0	0	0	0
Ratfish.....	0	0	0	103	7	0	0	0	0
Pac. Oc. Perch.....	0	70	0	3	1554338	700	2254	0	0
Nominal POP.....	0	8623	0	141	3016668	3720	12232	0	0
Rockfish, widow.....	0	172	0	712	4280618	10949332	5713	0	0
Rockfish, yellowtail.	0	8058	0	2731	3672198	169819	223693	0	0
Rkfsh, Sebastolobus..	513	1797	0	0	5561125	304	412	0	0
Rockfish, other spp..	594	255854	0	557529	8919242	114594	1093904	0	0
Sablefish.....	1975027	935128	0	458	5743164	210	50589	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, cohoe.....	0	0	0	0	0	0	0	0	0
Salmon, pink.....	0	0	0	0	0	0	0	0	0

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

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

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

SPECIES	FISH POT	BOTTOM LONGLINE	PELAGIC LONGLINE	OTHER HOOK&LINE	GROUND FISH TRAWL	MIDWATER TRAWL	SHRIMP TRAWL	SQUID NET	OCEAN GILLNET
Tuna, albacore.....	0	0	0	0	0	0	0	0	0
Walleye.....	0	0	0	0	0	0	0	0	0
Wolf-eel.....	0	93	0	735	3300	0	0	0	0
Wrymouth.....	0	11	0	0	110	0	0	0	0
CRUSTACEANS:									
Barnacle, Gooseneck..	0	0	0	0	0	0	0	0	0
Crab, box.....	0	0	0	0	381	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
Crab, Tanner.....	0	0	0	0	16	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	49128914	0	0
Shrimp, spot.....	0	0	0	0	0	0	74	0	0
Water flea (Daphnia).	0	0	0	0	0	0	0	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.....	0	55	0	35	6996	0	524	0	0

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

SPECIES	FISH POT	BOTTOM LONGLINE	PELAGIC LONGLINE	OTHER HOOK&LINE	GROUND FISH TRAWL	MIDWATER TRAWL	SHRIMP TRAWL	SQUID NET	OCEAN GILLNET
Scallops, rock.....	0	0	0	0	0	0	0	0	0
Squid.....	0	0	0	0	31	0	0	95994	0
OTHER INVERTEBRATES:									
Sea urchins, red.....	0	0	0	0	0	0	0	0	0
Bloodworms.....	0	0	0	0	0	0	0	0	0
Worms, tube.....	0	0	0	0	0	0	0	0	0
TOTAL	2321060	2186583	0	775285	64030097	11438891	50681636	95994	0

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1989. (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
FISH:										
Anchovy, northern.....	0	0	0	0	0	0	0	0	0	30
Cabezon.....	1052	0	0	0	0	0	0	0	0	14765
Squawfish, Northern...	0	0	0	0	42	0	0	0	0	42
Cod, Pacific.....	0	0	0	0	0	0	0	0	0	1720551
Flounder, arrowtooth..	0	0	0	0	0	0	0	0	0	2505977
Flounder, starry.....	54	0	0	0	0	0	0	0	0	443256
Greenling.....	0	0	0	0	0	0	0	0	0	169
Grenadier.....	0	0	0	0	0	0	0	0	0	112961
Hagfish.....	0	0	0	0	0	0	0	0	0	344187
Hake, Pac. (Whiting)..	0	0	0	0	0	0	0	0	0	195914
Halibut, Pacific.....	0	0	0	0	0	0	0	0	0	916024
Herring, Pacific.....	0	0	0	0	0	0	0	545769	0	546391
Lamprey.....	0	0	0	0	8366	0	0	0	0	8366
Lingcod.....	295	0	0	0	0	0	0	0	0	2590310
Mackerel.....	0	0	0	0	0	0	0	0	0	10443
Pollock, walleye.....	0	0	0	0	0	0	0	0	0	47
Ratfish.....	0	0	0	0	0	0	0	0	0	110
Pac. Oc. Perch.....	0	0	0	0	0	0	0	0	0	1557365
Nominal POP.....	0	0	0	0	0	0	0	0	0	3046384
Rockfish, widow.....	0	0	0	0	0	0	0	0	0	15236547
Rockfish, yellowtail..	0	0	0	0	0	0	0	0	0	4076729
Rkfish, Sebastalobus...	0	0	0	0	0	0	0	0	0	5564151
Rockfish, other spp...	1141	0	0	0	0	0	0	0	0	11086159
Sablefish.....	0	0	0	0	0	0	0	0	0	8704848
Salmon, chinook.....	0	0	0	0	0	0	0	0	0	7610539
Salmon, chum.....	0	0	0	0	0	0	0	0	0	4164
Salmon, coho.....	0	0	0	0	0	0	0	0	0	3836619
Salmon, pink.....	0	0	0	0	0	0	0	0	0	20295

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1989. (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
Salmon, sockeye.....	0	0	0	0	0	0	0	0	0	59
Sanddab, Pacific.....	0	0	0	0	0	0	0	0	0	162923
Sculpin.....	0	0	0	0	0	0	0	0	0	2
Irish Lord, Brown.....	2	0	0	0	0	0	0	0	0	2
Irish Lord, Red.....	0	0	0	0	0	0	0	0	0	2
Sculpin, Buffalo.....	0	0	0	0	5	0	0	0	0	10
Shad, American.....	0	0	0	0	0	0	0	0	0	194516
Shark, sixgill.....	0	0	0	0	0	0	0	0	0	135
Shark, soupfin.....	0	0	0	0	0	0	0	0	0	3264
Shark, spiny dogfish..	0	0	0	0	0	0	0	0	0	698
Shark, thresher.....	0	0	0	0	0	0	0	0	0	30
Shark, other.....	0	0	0	0	0	0	0	0	0	159
States and rays.....	2	0	0	0	0	0	0	0	0	8319
Smelt.....	0	0	0	0	0	0	0	9686	0	29654
Smelt, Whitebait.....	0	0	0	0	0	0	0	4512	0	4512
Sole, butter.....	0	0	0	0	0	0	0	0	0	2465
Sole, curlfin (turbot)	28	0	0	0	0	0	0	0	0	5420
Sole, Dover.....	0	0	0	0	0	0	0	0	0	19638358
Sole, English.....	0	0	0	0	0	0	0	0	0	1527272
Sole, flathead.....	0	0	0	0	0	0	0	0	0	7252
Sole, petrale.....	20	0	0	0	0	0	0	0	0	1901739
Sole, rex.....	23	0	0	0	0	0	0	0	0	623183
Sole, rock.....	1	0	0	0	0	0	0	0	0	5555
Sole, sand.....	5	0	0	0	0	0	0	0	0	487093
Steelhead.....	0	0	0	0	0	0	0	0	0	252099
Sturgeon, green.....	0	0	0	0	0	0	0	0	0	10673
Sturgeon, white.....	0	0	0	0	0	0	0	0	0	200472
Sucker, Largescale....	0	0	0	0	28	0	0	0	0	28
Surfperch.....	0	0	0	0	0	0	0	0	0	3710

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

SPECIES	CRAB POT	CRAB CLAM SHOVEL RING OR RAKE	CLAM PUMP OR JET	HAND DEVICE	SCALLOP DREDGE	SANDSHRIMP PUMP	BAITFISH NET	CRAYFISH TRAP	TOTAL ALL GEARS
Tuna, albacore.....	0	0	0	0	0	0	0	0	1079657
Walleye.....	0	0	0	0	0	0	0	0	7065
Wolf-eel.....	765	2	0	0	0	0	0	0	4917
Wrymouth.....	0	0	0	0	0	0	0	0	121
CRUSTACEANS:									
Barnacle, Gooseneck...	0	0	0	0	561	0	0	0	561
Crab, box.....	31	0	0	0	0	0	0	0	412
Crab, Dungeness, Bay..	0	63478	0	0	2	0	0	0	63480
Crab, Dungeness, Oc...	11612421	0	0	0	0	0	0	0	11612421
Crab, mole.....	0	0	8	0	0	0	0	0	8
Crab, rock.....	0	1160	0	0	2877	0	0	0	4037
Crab, Tanner.....	0	0	0	0	0	0	0	0	16
Crayfish.....	0	0	0	0	0	0	0	237990	237990
Shrimp, brine.....	0	0	0	0	29800	0	0	0	29800
Shrimp, ghost.....	0	0	0	0	0	68040	0	0	68040
Shrimp, mud.....	0	0	0	0	0	40995	0	0	40995
Shrimp, pink.....	0	0	0	0	0	0	0	0	49128914
Shrimp, spot.....	0	0	0	0	0	0	0	0	74
Water flea (Daphnia)..	0	0	0	0	3000	0	0	0	3000
MOLLUSKS:									
Clams, butter.....	0	0	1723	0	2083	0	0	0	3806
Clams, cockle.....	0	0	1840	0	42504	0	0	0	44344
Clams, gaper.....	0	0	310	0	4854	0	0	0	5164
Clams, littleneck....	0	0	0	0	6032	0	0	0	6032
Clams, softshell.....	0	0	1136	0	0	0	0	0	1136
Clams, razor.....	0	0	32177	0	0	0	0	0	32177
Mussels, ocean.....	0	0	0	0	65048	0	0	0	65048
Mussels, freshwater...	0	0	0	0	3773	0	0	0	3773
Octopus.....	7697	0	0	0	11	0	0	0	15318

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

SPECIES	CRAB POT	CRAB RING	CLAM OR RAKE	SHOVEL OR JET	CLAM PUMP OR JET	HAND DEVICE	SCALLOP DREDGE	SANDSHRIMP PUMP	BAITFISH NET	CRAYFISH TRAP	TOTAL ALL GEARS
Scallops, rock.....	0	0	0	0	0	220	0	0	0	0	220
Squid.....	0	0	0	0	0	0	0	0	0	0	96025
OTHER INVERTEBRATES:											
Sea urchins, red.....	0	0	0	0	0	7842658	0	0	0	0	7842658
Bloodworms.....	0	0	28	0	0	0	0	0	0	0	28
Worms, tube.....	0	0	0	0	0	1938	0	0	0	0	1938
TOTAL	11623537	64640	37222	0	0	8013802	0	109035	559967	237990	165622642

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

SPECIES	OCEAN TROLL	TUNA BAITBOAT	COASTAL GILLNET	COASTAL SETNET	COL. R. GILLNET	COL. R. SETNET	COL. R. SETLINE	COL. R. DIPNET	COL. R. HOOK&LINE	SHELT TRAWL
FISH:										
Anchovy, northern.....	0	0	0	0	15	0	0	0	0	0
Cabezon.....	87	0	0	0	0	0	0	0	0	0
Squawfish, Northern...	0	0	0	0	0	0	0	0	0	0
Cod, Pacific.....	6	0	0	0	0	0	0	0	0	0
Flounder, arrowtooth..	3	0	0	0	0	0	0	0	0	0
Flounder, starry.....	18	0	0	0	3913	0	0	0	0	0
Greenling.....	0	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)..	0	0	0	0	0	0	0	0	0	0
Halibut, Pacific.....	2260	0	0	0	0	0	0	0	0	0
Herring, Pacific.....	0	0	0	0	0	0	0	0	0	0
Lamprey.....	0	0	0	0	0	0	0	0	0	0
Lingcod.....	24223	0	0	0	0	0	0	0	0	0
Mackerel.....	839	0	0	0	0	0	0	0	0	0
Pollock, walleye.....	0	0	0	0	0	0	0	0	0	0
Ratfish.....	0	0	0	0	0	0	0	0	0	0
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.....	0	0	0	0	0	0	0	0	0	0
Rockfish, yellowtail..	102	0	0	0	0	0	0	0	0	0
Rifsh, Sebastolebus...	0	0	0	0	0	0	0	0	0	0
Rockfish, other spp...	55689	0	0	0	0	0	0	0	0	0
Sablefish.....	165	0	0	0	0	0	0	0	0	0
Salmon, chinook.....	7831852	0	0	0	2079556	693684	0	4309	0	0
Salmon, chum.....	430	0	0	0	1714	0	0	0	0	0
Salmon, coho.....	2121758	0	0	0	1320470	2146	0	580	0	0
Salmon, pink.....	13111	0	0	0	0	0	0	0	0	0

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

SPECIES	OCEAN TROLL	TUNA BAITBOAT	COASTAL GILLNET	COASTAL SETNET	COL. R. GILLNET	COL. R. SETNET	COL. R. SETLINE	COL. R. DIPNET	COL. R. HOOK&LINE	SHELT TRAWL
Salmon, sockeye.....	0	0	0	0	0	30	0	0	0	0
Sanddab, Pacific.....	4	0	0	0	0	0	0	0	0	0
Sculpin.....	0	0	0	0	0	0	0	0	0	0
Irish Lord, Brown.....	0	0	0	0	0	0	0	0	0	0
Irish Lord, Red.....	0	0	0	0	0	0	0	0	0	0
Sculpin, Buffalo.....	0	0	0	0	0	0	0	0	0	0
Shad, American.....	0	0	34049	9962	29632	0	0	0	0	0
Shark, sixgill.....	0	0	0	0	0	0	0	0	0	0
Shark, soupfin.....	25	0	0	0	0	0	0	0	0	0
Shark, spiny dogfish..	0	0	0	0	0	0	0	0	0	0
Shark, thresher.....	0	0	0	0	0	0	0	0	0	0
Shark, other.....	22	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	69	0	0	1757	0	2368
Smelt, Whitebait.....	0	0	0	0	0	0	0	0	0	0
Sole, butter.....	0	0	0	0	0	0	0	0	0	0
Sole, curlfin (turbot)	0	0	0	0	0	0	0	0	0	0
Sole, Dover.....	1	0	0	0	0	0	0	0	0	0
Sole, English.....	0	0	0	0	0	0	0	0	0	0
Sole, flathead.....	0	0	0	0	0	0	0	0	0	0
Sole, petrale.....	128	0	0	0	0	0	0	0	0	0
Sole, rex.....	3	0	0	0	0	0	0	0	0	0
Sole, rock.....	6	0	0	0	0	0	0	0	0	0
Sole, sand.....	4	0	0	0	0	0	0	0	0	0
Steelhead.....	0	0	0	0	0	129322	0	7250	0	0
Sturgeon, green.....	0	0	0	0	1717	0	0	0	0	0
Sturgeon, white.....	0	0	0	0	215409	160446	5869	0	0	0
Sucker, largescale....	0	0	0	0	0	0	0	0	0	0
Surfperch.....	0	0	0	0	0	0	0	0	0	0

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

SPECIES	OCEAN TROLL	TUNA BAITBOAT	COASTAL GILLNET	COASTAL SETNET	COL. R. GILLNET	COL. R. SETNET	COL. R. SETLINE	COL. R. DIPNET	COL. R. HOOK&LINE	SHELT TRAWL
Tuna, albacore.....	897241	0	0	0	0	0	0	0	0	0
Walleye.....	0	0	0	0	0	4649	0	0	0	0
Wolf-eel.....	6	0	0	0	0	0	0	0	0	0
Wrymouth.....	0	0	0	0	0	0	0	0	0	0
CRUSTACEANS:										
Barnacle, Gooseneck...	0	0	0	0	0	0	0	0	0	0
Crab, box.....	0	0	0	0	0	0	0	0	0	0
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	0	0
Crab, Dungeness, 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
Crab, Tanner.....	0	0	0	0	0	0	0	0	0	0
Crayfish.....	0	0	0	0	0	0	0	0	0	0
Shrimp, brine.....	0	0	0	0	0	0	0	0	0	0
Shrimp, ghost.....	0	0	0	0	0	0	0	0	0	0
Shrimp, mud.....	0	0	0	0	0	0	0	0	0	0
Shrimp, pink.....	0	0	0	0	0	0	0	0	0	0
Shrimp, spot.....	0	0	0	0	0	0	0	0	0	0
Water flea (Daphnia)..	0	0	0	0	0	0	0	0	0	0
MOLLUSKS:										
Clams, butter.....	0	0	0	0	0	0	0	0	0	0
Clams, cockle.....	0	0	0	0	0	0	0	0	0	0
Clams, gaper.....	0	0	0	0	0	0	0	0	0	0
Clams, littleneck.....	0	0	0	0	0	0	0	0	0	0
Clams, 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.....	0	0	0	0	0	0	0	0	0	0

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

SPECIES	OCEAN TROLL	TUNA BAITBOAT	COASTAL GILLNET	COASTAL SETNET	COL. R. GILLNET	COL. R. SETNET	COL. R. SETLINE	COL. R. DIPNET	COL. R. HOOK&LINE	SHELT TRAWL
Scallops, rock.....	0	0	0	0	0	0	0	0	0	0
Squid.....	0	0	0	0	0	0	0	0	0	0
OTHER INVERTEBRATES:										
Sea urchins, red.....	0	0	0	0	0	0	0	0	0	0
Bloodworms.....	0	0	0	0	0	0	0	0	0	0
Worms, tube.....	0	0	0	0	0	0	0	0	0	0
TOTAL	10997983	0	34049	9962	3655495	990277	5369	13896	0	2368

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

SPECIES	FISH POT	BOTTOM LONGLINE	PELAGIC LONGLINE	OTHER HOOK&LINE	GROUND FISH TRAWL	MIDWATER TRAWL	SHRIMP TRAWL	SQUID NET	OCEAN GILLNET
FISH:									
Anchovy, northern....	0	0	0	0	0	0	0	0	0
Cabezon.....	0	60	0	3568	320	0	0	0	0
Squawfish, Northern..	0	0	0	0	0	0	0	0	0
Cod, Pacific.....	1	311	0	0	444289	653	3054	0	0
Flounder, arrowtooth.	60	44	0	5	241302	0	944	0	0
Flounder, starry....	0	0	0	9	129244	0	2	0	0
Greenling.....	0	0	0	99	0	0	0	0	0
Grenadier.....	0	0	0	0	17920	0	0	0	0
Hagfish.....	103252	0	0	0	0	0	4	0	0
Hake, Pac. (Whiting).	0	0	0	0	846	13779	0	0	0
Halibut, Pacific.....	0	1297875	0	1297	684	0	350	0	0
Herring, Pacific.....	0	0	0	486	0	0	0	0	0
Lamprey.....	0	0	0	0	0	0	0	0	0
Lingcod.....	44	25925	0	96878	697616	1201	25262	0	0
Hackeral.....	0	0	0	25	9	0	301	0	0
Pollock, walleye....	0	0	0	0	5	0	0	0	0
Ratfish.....	0	0	0	10	1	0	0	0	0
Pac. Oc. Perch.....	0	19	0	1	431358	195	593	0	0
Nominal POP.....	0	1990	0	50	730281	2113	2968	0	0
Rockfish, widow.....	0	86	0	234	1104468	2217035	1493	0	0
Rockfish, yellowtail.	0	2181	0	1002	990809	45805	59840	0	0
Rkfsh, Sebastolobus..	191	656	0	0	2049332	112	149	0	0
Rockfish, other spp..	178	126403	0	242081	2405391	30250	274228	0	0
Sablefish.....	1143273	562620	0	264	2114446	109	13665	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

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

SPECIES	FISH POT	BOTTOM LONGLINE	PELAGIC LONGLINE	OTHER HOOK&LINE	GROUND FISH TRAWL	MIDWATER TRAWL	SHRIMP TRAWL	SQUID NET	OCEAN GILLNET
Salmon, sockeye.....	0	0	0	0	0	0	0	0	0
Sanddab, Pacific.....	0	0	0	3	41169	0	193	0	0
Sculpin.....	0	0	0	0	1	0	0	0	0
Irish Lord, Brown....	0	0	0	0	0	0	0	0	0
Irish Lord, Red.....	0	0	0	1	0	0	0	0	0
Sculpin, Buffalo.....	0	0	0	0	0	0	0	0	0
Shad, American.....	0	0	0	0	7	0	0	0	0
Shark, sixgill.....	0	26	0	20	28	0	0	0	0
Shark, soupfin.....	0	331	0	19	2530	0	209	0	0
Shark, spiny dogfish.	0	0	0	34	299	0	0	0	0
Shark, thresher.....	0	0	0	0	49	0	0	0	0
Shark, other.....	0	0	0	0	73	0	0	0	0
Skates and rays.....	0	0	0	60	2591	0	2	0	0
Smelt.....	0	0	0	0	0	0	0	0	0
Smelt, Whitebait.....	0	0	0	0	0	0	0	0	0
Sole, butter.....	0	0	0	0	617	0	0	0	0
Sole, curlfin (turbot)	0	0	0	0	1893	0	0	0	0
Sole, Dover.....	8	46	0	0	5460400	87	12058	0	0
Sole, English.....	0	0	0	0	562253	103	482	0	0
Sole, flathead.....	0	0	0	0	2736	0	19	0	0
Sole, petrale.....	0	402	0	0	1586556	0	872	0	0
Sole, rex.....	0	0	0	0	227044	62	187	0	0
Sole, rock.....	0	0	0	0	2106	0	0	0	0
Sole, sand.....	0	2	0	0	363864	0	1	0	0
Steelhead.....	0	0	0	0	0	0	0	0	0
Sturgeon, green.....	0	0	0	0	3710	0	17	0	0
Sturgeon, white.....	0	0	0	0	501	0	0	0	0
Sucker, largescale...	0	0	0	0	0	0	0	0	0
Surfperch.....	0	0	0	2810	0	0	0	0	0

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

SPECIES	FISH POT	BOTTOM LONGLINE	PELAGIC LONGLINE	OTHER HOOK&LINE	GROUND FISH TRAWL	MIDWATER TRAWL	SHRIMP TRAWL	SQUID NET	OCEAN GILLNET
Tuna, albacore.....	0	0	0	0	0	0	0	0	0
Walleye.....	0	0	0	0	0	0	0	0	0
Wolf-eel.....	0	46	0	255	859	0	0	0	0
Wrymouth.....	0	1	0	0	17	0	0	0	0
CRUSTACEANS:									
Barnacle, Gooseneck..	0	0	0	0	0	0	0	0	0
Crab, box.....	0	0	0	0	95	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
Crab, Tanner.....	0	0	0	0	16	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	17906265	0	0
Shrimp, spot.....	0	0	0	0	0	0	259	0	0
Water flea (Daphnia).	0	0	0	0	0	0	0	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.....	0	28	0	33	4058	0	424	0	0

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1987. (CONT.)

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

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1969. (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
FISH:										
Anchovy, northern.....	0	0	0	0	0	0	0	0	0	15
Cabezon.....	319	0	0	0	0	0	0	0	0	4354
Squawfish, Northern...	0	0	0	0	2	0	0	0	0	2
Cod, Pacific.....	0	0	0	0	0	0	0	0	0	448314
Flounder, arrowtooth..	0	0	0	0	0	0	0	0	0	242358
Flounder, starry.....	27	0	0	0	0	0	0	0	0	133213
Greenling.....	0	0	0	0	0	0	0	0	0	99
Grenadier.....	0	0	0	0	0	0	0	0	0	17920
Hagfish.....	0	0	0	0	0	0	0	0	0	103256
Hake, Pac. (Whiting)..	0	0	0	0	0	0	0	0	0	14625
Halibut, Pacific.....	0	0	0	0	0	0	0	0	0	1302466
Herring, Pacific.....	0	0	0	0	0	0	0	266971	0	267457
Lamprey.....	0	0	0	0	2950	0	0	0	0	2950
Lingcod.....	138	0	0	0	0	0	0	0	0	871307
Mackerel.....	0	0	0	0	0	0	0	0	0	1174
Pollock, walleye.....	0	0	0	0	0	0	0	0	0	5
Ratfish.....	0	0	0	0	0	0	0	0	0	11
Fac. Oc. Perch.....	0	0	0	0	0	0	0	0	0	432166
Meminal POP.....	0	0	0	0	0	0	0	0	0	737407
Rockfish, widow.....	0	0	0	0	0	0	0	0	0	3923316
Rockfish, yellowtail..	0	0	0	0	0	0	0	0	0	1099739
Rkfsh, Sebastolobus...	0	0	0	0	0	0	0	0	0	2050440
Rockfish, other spp...	499	0	0	0	0	0	0	0	0	3134719
Sablefish.....	0	0	0	0	0	0	0	0	0	3834542
Salmon, chinook.....	0	0	0	0	0	0	0	0	0	10659401
Salmon, chum.....	0	0	0	0	0	0	0	0	0	2144
Salmon, coho.....	0	0	0	0	0	0	0	0	0	3454954
Salmon, pink.....	0	0	0	0	0	0	0	0	0	13111

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1989. (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
Salmon, sockeye	0	0	0	0	0	0	0	0	0	30
Sanddab, Pacific.....	0	0	0	0	0	0	0	0	0	41369
Sculpin.....	0	0	0	0	0	0	0	0	0	1
Irish Lord, Brown.....	1	0	0	0	0	0	0	0	0	1
Irish Lord, Red.....	0	0	0	0	0	0	0	0	0	1
Sculpin, Buffalo.....	0	0	0	0	1	0	0	0	0	1
Shad, American.....	0	0	0	0	0	0	0	0	0	73650
Shark, sixgill.....	0	0	0	0	0	0	0	0	0	74
Shark, soupfin.....	0	0	0	0	0	0	0	0	0	3114
Shark, spiny dogfish..	0	0	0	0	0	0	0	0	0	333
Shark, thresher.....	0	0	0	0	0	0	0	0	0	49
Shark, other.....	0	0	0	0	0	0	0	0	0	95
Slates and rays.....	1	0	0	0	0	0	0	0	0	2654
Smelt.....	0	0	0	0	0	0	0	1924	0	6118
Smelt, Whitebait.....	0	0	0	0	0	0	0	1451	0	1451
Sole, butter.....	0	0	0	0	0	0	0	0	0	617
Sole, curlfin (turbot)	9	0	0	0	0	0	0	0	0	1907
Sole, Dover.....	0	0	0	0	0	0	0	0	0	5472600
Sole, English.....	0	0	0	0	0	0	0	0	0	562838
Sole, flathead.....	0	0	0	0	0	0	0	0	0	2755
Sole, petrale.....	17	0	0	0	0	0	0	0	0	1589975
Sole, rex.....	9	0	0	0	0	0	0	0	0	227305
Sole, rock.....	0	0	0	0	0	0	0	0	0	2112
Sole, sand.....	1	0	0	0	0	0	0	0	0	363872
Steelhead.....	0	0	0	0	0	0	0	0	0	136572
Sturgeon, green.....	0	0	0	0	0	0	0	0	0	5444
Sturgeon, white.....	0	0	0	0	0	0	0	0	0	385225
Sucker, largescale...	0	0	0	0	1	0	0	0	0	1
Surfp perch.....	0	0	0	0	0	0	0	0	0	2310

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1989. (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
Tuna, albacore.....	0	0	0	0	0	0	0	0	0	897241
Walleye.....	0	0	0	0	0	0	0	0	0	4649
Wolf-eel.....	304	1	0	0	0	0	0	0	0	1471
Wrymouth.....	0	0	0	0	0	0	0	0	0	18
CRUSTACEANS:										
Barnacle, Gooseneck...	0	0	0	0	1938	0	0	0	0	1938
Crab, box.....	13	0	0	0	0	0	0	0	0	108
Crab, Dungeness, Bay..	0	101568	0	0	3	0	0	0	0	101571
Crab, Dungeness, Oc...	13462688	0	0	0	0	0	0	0	0	13462688
Crab, mole.....	0	0	8	0	0	0	0	0	0	8
Crab, rock.....	0	1160	0	0	2877	0	0	0	0	4037
Crab, Tanner.....	0	0	0	0	0	0	0	0	0	16
Crayfish.....	0	0	0	0	0	0	0	0	318466	318466
Shrimp, brine.....	0	0	0	0	46260	0	0	0	0	46260
Shrimp, ghost.....	0	0	0	0	0	0	97903	0	0	97903
Shrimp, mud.....	0	0	0	0	0	0	67123	0	0	67123
Shrimp, pink.....	0	0	0	0	0	0	0	0	0	17906265
Shrimp, spot.....	0	0	0	0	0	0	0	0	0	259
Water flea (Daphnia)...	0	0	0	0	3000	0	0	0	0	3000
MOLLUSKS:										
Clams, butter.....	0	0	970	0	577	0	0	0	0	1547
Clams, cockle.....	0	0	608	0	20035	0	0	0	0	20643
Clams, gaper.....	0	0	156	0	1594	0	0	0	0	1750
Clams, littleneck.....	0	0	0	0	9951	0	0	0	0	6951
Clams, softshell.....	0	0	450	0	0	0	0	0	0	450
Clams, razor.....	0	0	87962	0	0	0	0	0	0	87962
Mussels, ocean.....	0	0	0	0	21871	0	0	0	0	21871
Mussels, freshwater...	0	0	0	0	1094	0	0	0	0	1094
Octopus.....	4076	0	0	0	5	0	0	0	0	8625

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1989. (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
Scallops, rock.....	0	0	0	0	10	0	0	0	0	10
Squid	0	0	0	0	0	0	0	0	0	7683
OTHER INVERTEBRATES:										
Sea urchins, red.....	0	0	0	0	2728272	0	0	0	0	2728272
Bloodworms.....	0	0	11	0	0	0	0	0	0	11
Worms, tube.....	0	0	0	0	773	0	0	0	0	773
TOTAL	13468102	102729	90165	0	2840215	0	165026	270346	318466	77427102

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

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<u>TROLL</u>													
FISH:													
Cabezon.....	0	0	0	0	8	7	36	0	75	0	19	0	145
Cod, Pacific.....	0	0	0	0	0	0	0	0	23	0	0	0	23
Flounder, arrowtooth..	0	0	0	0	0	0	0	9	4	0	0	0	13
Flounder, starry.....	0	0	0	0	0	20	19	0	10	0	0	0	49
Halibut, Pacific.....	0	0	0	0	0	1583	39	45	17	20	0	0	1704
Lingcod.....	0	0	0	0	8165	2758	11213	11594	12424	3915	2151	0	52220
Hackeral.....	0	0	0	0	0	36	5452	1029	26	0	0	0	6543
Rockfish, yellowtail..	0	0	0	0	0	71	156	0	3	0	0	0	230
Rockfish, other spp...	0	0	0	0	30832	8803	24768	29493	16144	30241	3020	0	143301
Sablefish.....	0	0	0	0	0	7	247	3	0	15	0	0	272
Salmon, chinook.....	0	0	0	0	1134292	671737	858288	826144	316127	195155	60594	0	4062337
Salmon, chum.....	0	0	0	0	251	133	96	18	0	0	0	0	498
Salmon, coho.....	0	0	0	0	0	5352	1859137	377054	53304	0	0	0	2294847
Salmon, pink.....	0	0	0	0	1451	2965	11821	4044	14	0	0	0	20295
Sanddab, Pacific.....	0	0	0	0	10	4	0	0	0	0	0	0	14
Shark, soupfin.....	0	0	0	0	0	0	18	0	0	0	0	0	18
Shark, spiny dogfish..	0	0	0	0	0	3	0	0	0	0	0	0	3
Shark, other.....	0	0	0	0	0	0	15	22	0	0	0	0	37
Sole, Dover.....	0	0	0	0	0	0	4	0	0	0	0	0	4
Sole, petrale.....	0	0	0	0	7	11	41	78	27	7	0	0	171
Sole, rex.....	0	0	0	0	0	0	0	8	0	0	0	0	8
Sole, rock.....	0	0	0	0	0	0	0	0	9	2	0	0	11
Sole, sand.....	0	0	0	0	0	0	0	6	2	0	0	0	8
Tuna, albacore.....	0	0	0	0	0	0	41164	413364	460742	157044	7343	0	1079657
Wolf-eel.....	0	0	0	0	2	4	16	0	0	0	0	0	22
TOTAL	0	0	0	0	1175018	693494	2812530	1662911	858951	386399	73127	0	7662430

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

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<u>COASTAL GILLNET</u>													
FISH:													
Shad, American.....	0	0	0	0	13417	25600	0	0	0	0	0	0	39017
TOTAL	0	0	0	0	13417	25600	0	0	0	0	0	0	39017
<u>COASTAL SETNET</u>													
FISH:													
Shad, American.....	0	0	0	0	1600	9830	203	0	0	0	0	0	11633
TOTAL	0	0	0	0	1600	9830	203	0	0	0	0	0	11633
<u>COL. R. GILLNET</u>													
FISH:													
Anchovy, northern.....	0	0	0	0	0	0	0	0	30	0	0	0	30
Flounder, starry.....	0	213	913	0	0	0	0	1392	9790	994	1	0	13303
Salmon, chinook.....	0	85779	90960	0	0	0	0	809681	1197677	239583	42308	0	2465988
Salmon, chum.....	0	0	0	0	0	0	0	0	15	2553	1098	0	3666
Salmon, coho.....	0	0	0	0	0	0	0	4400	435974	982059	114803	0	1537236
Shad, American.....	0	0	0	0	70900	71737	1188	0	0	0	0	0	143825
Smelt.....	0	0	274	0	0	0	0	0	0	0	0	0	274
Sturgeon, green.....	0	0	0	0	0	0	0	280	3162	340	58	0	3840
Sturgeon, white.....	0	5060	3103	0	0	0	0	62778	31471	14142	5261	0	121815
TOTAL	0	91052	95250	0	70900	71737	1188	678531	1678119	1239671	163529	0	4269977
<u>COL. R. SETNET</u>													
FISH:													
Salmon, chinook.....	0	0	0	708	0	0	0	254568	817084	0	0	0	1072360
Salmon, coho.....	0	0	0	0	0	0	0	55	3666	0	0	0	3721
Salmon, sockeye.....	0	0	0	0	0	0	0	52	7	0	0	0	59
Steelhead.....	0	4754	37111	0	0	0	0	43337	151905	0	0	0	237107
Sturgeon, white.....	0	24054	51292	0	0	0	0	0	0	0	0	0	75346
Walleye.....	0	137	5218	0	0	0	0	795	915	0	0	0	7065

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

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

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

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<u>BOTTOM LONGLINE</u>													
FISH:													
Cabezon.....	0	39	0	0	163	36	0	0	0	0	0	0	238
Cod, Pacific.....	0	0	488	0	0	128	144	20	0	0	0	0	780
Flounder, arrowtooth..	0	0	0	0	54	276	86	0	0	0	0	0	416
Halibut, Pacific.....	0	0	0	0	27340	301801	32813	55023	313737	181760	0	0	912479
Lingcod.....	522	2208	6049	13405	4754	7798	1755	4091	12443	8031	179	572	61807
Pac. Oc. Perch.....	0	0	0	0	0	0	0	0	70	0	0	0	70
Nominal POP.....	0	0	170	543	3997	2158	1650	105	0	0	0	0	8623
Rockfish, widow.....	0	0	0	0	0	0	0	92	80	0	0	0	172
Rockfish, yellowtail..	0	0	1266	3325	0	2	0	747	1812	906	0	0	8058
Rkfsh, Sebastolobus...	0	678	0	236	264	476	135	0	0	8	0	0	1797
Rockfish, other spp...	1333	7714	6034	21953	30713	27118	15299	44599	66805	31152	1220	1914	255854
Sablefish.....	0	17801	960	101775	317010	242377	250140	526	525	4014	0	0	935128
Shark, sixgill.....	0	0	0	0	0	0	0	0	0	0	48	0	48
Shark, soupfin.....	0	0	0	0	0	249	0	0	0	49	15	0	313
Sole, Dover.....	0	0	0	0	55	18	92	0	0	0	0	0	165
Sole, petrale.....	0	0	0	12	4	420	30	8	0	0	0	0	474
Sole, sand.....	0	0	0	0	0	2	0	0	0	0	0	0	2
Wolf-eel.....	0	0	0	8	58	27	0	0	0	0	0	0	93
Wrymouth.....	0	0	0	0	0	0	11	0	0	0	0	0	11
MOLLUSKS:													
Octopus.....	0	0	0	0	0	0	0	0	10	45	0	0	55
TOTAL	1855	28440	14967	141257	384412	592886	302160	105211	395482	225965	1462	2486	2186583
<u>OTHER HOOK & LINE</u>													
FISH:													
Cabezon.....	439	339	352	3627	4761	314	719	416	464	42	300	269	12042
Flounder, arrowtooth..	0	0	0	4	0	8	0	1	0	0	0	0	13
Flounder, starry.....	0	0	0	21	2	0	0	3	0	0	0	0	26

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

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Greenling.....	1	0	0	17	32	47	42	30	0	0	0	0	169
Halibut, Pacific.....	0	0	0	0	0	1064	0	0	0	0	0	0	1064
Herring, Pacific.....	0	386	138	96	0	0	2	0	0	0	0	0	622
Lingcod.....	3503	31542	26386	34895	8603	6421	9362	11693	30259	14778	5088	12351	194881
Mackerel.....	0	0	0	0	0	0	52	18	0	0	0	0	70
Ratfish.....	0	0	0	0	0	0	69	34	0	0	0	0	103
Pac. Oc. Perch.....	0	0	0	0	0	0	0	3	0	0	0	0	3
Nominal POP.....	0	15	0	108	0	0	0	0	18	0	0	0	141
Rockfish, widow.....	47	14	0	575	0	0	0	0	76	0	0	0	712
Rockfish, yellowtail..	104	632	866	678	1	46	0	0	164	240	0	0	2731
Rockfish, other spp...	25572	29536	46259	141900	47150	32700	74905	36076	73389	30459	7093	12490	557529
Sablefish.....	0	0	0	20	0	205	14	0	219	0	0	0	458
Sanddab, Pacific.....	0	0	0	0	0	0	0	12	0	0	0	0	12
Irish Lord, Red.....	0	0	0	0	2	0	0	0	0	0	0	0	2
Sculpin, Buffalo.....	0	0	0	0	4	0	1	0	0	0	0	0	5
Shark, sixgill.....	0	0	0	0	0	36	0	0	0	0	0	0	36
Shark, soupfin.....	0	0	0	0	0	0	0	0	0	0	30	0	30
Shark, spiny dogfish..	0	0	0	18	4	0	9	22	3	0	0	0	56
States and rays.....	0	0	0	70	0	3	27	0	0	0	0	0	100
Surfperch.....	25	377	761	844	5	328	448	560	0	160	189	13	3710
Wolf-eel.....	0	0	9	166	466	12	66	6	3	0	7	0	735
MOLLUSKS:													
Octopus.....	0	0	0	35	0	0	0	0	0	0	0	0	35
TOTAL	29691	62841	74771	183074	61030	41164	85716	46874	104595	45679	12707	25123	775285
GROUND FISH TRAWL													
FISH:													
Cabezon.....	0	45	0	0	166	26	0	268	763	18	0	0	1288
Cod, Pacific.....	60895	34825	18930	142117	189949	243996	337947	416161	144472	36317	15373	62179	1705161
Flounder, arrowtooth..	95827	152076	101512	126689	170611	316446	432874	340584	283303	186722	155882	132678	2495404

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1969. (CONT.)

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Flounder, starry.....	833	4275	2091	8700	166806	87982	50331	58605	43430	2392	787	3581	429814
Grenadier.....	240	1090	7250	12558	7665	10990	13250	18201	19159	10855	9413	2310	112981
Hake, Pac. (Whiting)...	0	0	0	0	6240	0	0	0	0	0	1381	0	7621
Halibut, Pacific.....	0	200	0	0	0	0	15	12	0	278	23	49	577
Lingcod.....	45032	53095	29253	74233	217203	271152	317686	330646	416680	262516	82160	92403	2192059
Mackerel.....	0	0	0	0	0	0	38	26	2	10	0	0	76
Pollock, walleye.....	0	47	0	0	0	0	0	0	0	0	0	0	47
Ratfish.....	0	0	0	0	0	0	7	0	0	0	0	0	7
Pac. Oc. Perch.....	102533	136257	103033	172120	207501	216423	221746	129080	142092	89348	34101	104	1554338
Nominal POP.....	355471	400829	152107	235443	185950	248058	318766	342578	283963	202789	101322	189392	3016668
Rockfish, widow.....	662272	596696	387294	269698	272107	218511	298748	499768	615235	286009	56019	118261	4280618
Rockfish, yellowtail..	356571	287079	231061	323897	465707	434528	377204	282023	465971	241815	75622	130720	3672198
Rkfish, Sebastolobus...	352884	422328	451460	498948	425953	338168	576356	551930	334464	431703	547007	629924	5561125
Rockfish, other spp...	685604	678017	371134	715710	772517	808115	886950	1053833	1026036	855270	464164	601892	8919242
Sablefish.....	420892	354529	445061	666883	437431	343311	521762	545002	508175	499755	439370	560993	5743164
Sanddab, Pacific.....	15541	27560	9406	20760	14001	7518	15052	16726	15636	5780	2626	11520	162126
Sculpin.....	0	0	0	0	0	0	2	0	0	0	0	0	2
Shad, American.....	0	0	0	0	0	0	0	0	41	0	0	0	41
Shark, sixgill.....	0	11	0	0	0	0	0	40	0	0	0	0	51
Shark, soupfin.....	40	398	0	28	37	243	842	327	27	0	293	468	2703
Shark, spiny dogfish..	0	0	0	0	0	50	68	21	0	490	0	10	639
Shark, thresher.....	30	0	0	0	0	0	0	0	0	0	0	0	30
Shark, other.....	0	0	0	0	0	0	0	122	0	0	0	0	122
Skates and rays.....	675	1866	837	0	272	799	646	1805	1010	0	192	109	8211
Sole, butter.....	0	0	0	0	63	0	0	1227	5	1170	0	0	2465
Sole, curlfin (turbot)	0	186	52	210	2472	1042	1304	126	0	0	0	0	5392
Sole, Dover.....	1925314	1615360	1665516	2360555	1409645	963974	1165171	1402920	1678367	1786388	1611779	2005163	19590152
Sole, English.....	69424	152839	40463	74816	116358	182835	243821	195658	218872	105572	57765	66968	1525441
Sole, flathead.....	0	0	0	0	7	203	867	714	0	5411	0	0	7202
Sole, petrale.....	479034	232581	88135	34136	46690	62080	12906	143975	149238	79627	83113	322337	1899902

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

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Sole, rex.....	44313	72345	29938	50478	47421	60646	69553	64071	97259	46958	17760	31253	622495
Sole, rock.....	0	0	0	96	263	3493	1370	241	0	0	80	0	5543
Sole, sand.....	9067	4911	5005	8890	69201	91665	72597	129392	78866	13063	1191	3229	487077
Sturgeon, green.....	231	179	194	126	1545	2201	429	502	959	246	76	115	6803
Sturgeon, white.....	53	0	0	0	0	296	20	67	0	0	42	0	478
Wolf-eel.....	0	0	0	104	791	654	195	680	701	175	0	0	3300
Wrymouth.....	0	0	0	0	0	0	33	40	0	0	20	17	110
CRUSTACEANS:													
Crab, box.....	0	0	0	0	0	0	49	28	304	0	0	0	381
Crab, Tanner.....	0	0	0	0	0	0	4	12	0	0	0	0	16
MOLLUSKS:													
Octopus.....	242	868	191	400	782	1240	1099	917	664	258	259	76	6996
Squid.....	0	0	0	0	0	0	0	0	20	0	11	0	31
TOTAL	5683018	5231043	4139923	5847595	5235554	4916647	6055708	6528328	6515714	5152935	3757831	4965801	64030097
<u>MIDWATER TRAWL</u>													
FISH:													
Cod, Pacific.....	0	10	0	0	0	0	0	2500	0	0	0	0	2510
Hake, Pac. (Whiting)...	0	0	0	65114	0	0	0	0	49168	42129	31862	0	188293
Lingcod.....	44	328	39	1052	1205	990	0	0	0	0	0	0	3658
Pac. Oc. Perch.....	0	700	0	0	0	0	0	0	0	0	0	0	700
Nominal POP.....	0	2928	4226	805	0	0	761	0	0	0	0	0	8720
Rockfish, widow.....	2620056	2280310	1685926	1740735	217341	257383	554124	565886	613450	214121	0	0	10949332
Rockfish, yellowtail..	4848	36624	16290	54943	11085	8493	13598	11611	5910	6517	0	0	169819
Rkfsh, Sebastolobus...	0	9	0	120	0	0	175	0	0	0	0	0	304
Rockfish, other spp...	7425	17717	4250	57628	800	500	4377	20575	1322	0	0	0	114594
Sablefish.....	100	0	0	110	0	0	0	0	0	0	0	0	210
Sole, Dover.....	116	0	0	0	0	0	0	200	0	0	0	0	316
Sole, English.....	0	0	0	0	0	0	272	0	0	0	0	0	272
Sole, rex.....	0	0	0	0	0	0	163	0	0	0	0	0	163

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

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
TOTAL	2632589	2338626	1910731	1920407	230431	267366	573470	600772	669850	262767	31882	0	11438891
SHRIMP TRAWL													
FISH:													
Cod, Pacific.....	0	0	0	4622	4106	951	8	409	333	1643	0	0	12072
Flounder, arrowtooth..	0	0	0	138	443	2505	272	2486	2721	957	0	0	9522
Flounder, starry.....	0	0	0	0	0	0	10	0	0	0	0	0	10
Hagfish.....	0	0	0	0	0	0	0	0	0	12	0	0	12
Halibut, Pacific.....	0	0	0	0	17	142	0	0	41	0	0	0	200
Lingcod.....	0	0	0	10176	14615	10484	3243	20794	15250	11218	0	0	85780
Mackeral.....	0	0	0	0	0	0	0	3754	0	0	0	0	3754
Pac. Oc. Perch.....	0	0	0	120	1328	375	31	268	12	120	0	0	2254
Nominal POP.....	0	0	0	953	457	1861	2764	5245	461	491	0	0	12232
Rockfish, widow.....	0	0	0	128	3827	26	0	1168	531	13	0	0	5713
Rockfish, yellowtail..	0	0	0	58935	70801	44895	13740	13606	8841	12875	0	0	223693
Rkfsh, Sebastolobus...	0	0	0	0	2	17	2	230	64	97	0	0	412
Rockfish, other spp...	0	0	0	156280	323809	232904	63259	130735	122187	64730	0	0	1093904
Sablefish.....	0	0	0	143	2399	2449	4830	25802	9430	5536	0	0	50589
Sanddab, Pacific.....	0	0	0	151	0	0	0	0	0	620	0	0	771
Shark, scupfin.....	0	0	0	0	27	0	0	39	27	107	0	0	200
Skates and rays.....	0	0	0	0	0	0	0	0	6	0	0	0	6
Sole, Dover.....	0	0	0	1470	2051	4597	4547	15139	13417	6473	0	0	47694
Sole, English.....	0	0	0	265	177	83	63	447	244	280	0	0	1559
Sole, flathead.....	0	0	0	0	0	0	0	0	0	50	0	0	50
Sole, petrale.....	0	0	0	171	226	99	25	153	248	250	0	0	1172
Sole, rex.....	0	0	0	120	322	0	10	18	5	19	0	0	494
Sole, sand.....	0	0	0	1	0	0	0	0	0	0	0	0	1
Sturgeon, green.....	0	0	0	0	0	0	0	0	0	30	0	0	30
CRUSTACEANS:													
Shrimp, pink.....	0	0	0	8253871	9349972	7012652	3542496	8273472	7353482	5342969	0	0	49128914

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

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Shrimp, spot.....	0	0	0	0	0	0	74	0	0	0	0	0	74
HOLLUSKS:													
Octopus.....	0	0	0	260	13	115	16	69	51	0	0	0	524
TOTAL	0	0	0	8437804	9774592	7314155	3635396	8493854	7527351	5448490	0	0	50681636
SQUID NET													
HOLLUSKS:													
Squid.....	0	0	0	0	95994	0	0	0	0	0	0	0	95994
TOTAL	0	0	0	0	95994	0	0	0	0	0	0	0	95994
CRAB POT													
FISH:													
Cabezon.....	182	223	14	111	173	0	269	32	0	0	0	48	1052
Flounder, starry.....	0	50	0	2	0	0	0	0	0	0	0	2	54
Lingcod.....	18	75	14	17	104	30	10	0	0	0	0	27	295
Rockfish, other spp....	46	228	61	69	278	244	36	0	0	0	0	159	1141
Irish Lord, Brown.....	0	0	0	2	0	0	0	0	0	0	0	0	2
Skates and rays.....	0	0	0	0	0	0	0	0	0	0	0	2	2
Sole, curlfin (turbot)	0	0	0	21	0	0	0	0	0	0	0	7	28
Sole, petrale.....	0	0	20	0	0	0	0	0	0	0	0	0	20
Sole, rex.....	0	23	0	0	0	0	0	0	0	0	0	0	23
Sole, rock.....	0	0	0	0	0	0	0	0	0	0	0	1	1
Sole, sand.....	0	0	0	0	0	0	0	0	0	0	0	5	5
Wolf-eel.....	22	52	55	283	131	89	71	0	0	0	0	57	765
CRUSTACEANS:													
Crab, box.....	18	0	0	0	0	0	0	0	0	0	0	13	31
Crab, Dungeness, Oc....	2791502	1378145	550587	619286	508381	187504	239226	101445	0	0	0	5236345	11612421
HOLLUSKS:													
Octopus.....	943	356	405	405	10	8	0	0	0	0	0	5570	7697

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

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

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

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
CRUSTACEANS:													
Barnacle, Gooseneck...	90	250	0	52	130	15	0	15	4	5	0	0	561
Crab, Dungeness, Bay..	0	0	0	2	0	0	0	0	0	0	0	0	2
Crab, rock.....	763	810	727	215	362	0	0	0	0	0	0	0	2877
Shrimp, brine.....	0	0	0	0	6200	9300	12300	2000	0	0	0	0	29800
Water flea (Daphnia)..	0	3000	0	0	0	0	0	0	0	0	0	0	3000
MOLLUSKS:													
Clams, butter.....	0	0	0	210	150	0	0	0	0	1073	416	234	2083
Clams, cockle.....	4586	4525	5144	10688	0	7030	0	3270	700	300	381	5880	42504
Clams, gaper.....	0	550	0	0	0	0	0	0	45	792	1195	2272	4854
Clams, littleneck....	47	54	75	539	285	142	764	1432	1496	979	165	54	6032
Mussels, ocean.....	6436	4146	6223	7825	9812	9796	4768	3340	2097	2276	3314	5015	65048
Mussels, freshwater...	0	0	0	0	0	0	0	0	3773	0	0	0	3773
Octopus.....	0	0	0	0	0	0	0	0	0	0	11	0	11
Scallops, rock.....	0	125	0	95	0	0	0	0	0	0	0	0	220
OTHER INVERTEBRATES:													
Sea urchins, red.....	217509	357516	217559	744209	856590	865345	819323	818713	1149794	698257	461567	636276	7842658
Worms, tube.....	0	0	60	0	893	775	210	0	0	0	0	0	1938
TOTAL	229431	370976	229788	763884	874436	898399	839747	828770	1157909	703682	467049	649731	8013802
BAITSHRIMP PUMP													
CRUSTACEANS:													
Shrimp, ghost.....	3028	2232	3464	5452	8908	9091	6948	6312	7144	9623	3865	1973	68040
Shrimp, mud.....	8436	4721	5714	3209	1160	843	724	1213	1444	1812	4886	6833	40995
TOTAL	11464	6953	9178	8661	10068	9934	7672	7525	8588	11435	8751	8806	109035
BAITFISH NET													
FISH:													
Herring, Pacific.....	0	528855	0	16638	0	276	0	0	0	0	0	0	545769
Smelt.....	0	0	0	0	725	3202	4744	1015	0	0	0	0	9686

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

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Smelt, Whitebait.....	0	0	0	0	1229	90	3193	0	0	0	0	0	4512
TOTAL	0	528855	0	16638	1954	3568	7937	1015	0	0	0	0	559967
CRAYFISH TRAP-----													
CRUSTACEANS:													
Crayfish.....	0	0	0	4982	14172	48774	64466	46423	38109	21064	0	0	237990
TOTAL	0	0	0	4982	14172	48774	64466	46423	38109	21064	0	0	237990
TOTAL	11489738	10183302	7230492	18321268	18960981	15547704	15066293	19626987	20046018	13620762	4600362	10928735	165622642

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

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

SPECIES	COLUMBIA		PACIFIC		DEPOE		WINCHESTER			PORT	GOLD		OTHER 2/	TOTAL	
	RIVER 1/	ASTORIA	GARIBALDI	CITY	BAY	NEWPORT	FLORENCE	BAY	CHARLESTON	BANDON	ORFORD	BEACH	BROOKINGS		LOCATIONS
FISH:															
Anchovy, northern...	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Cabezon.....	0	0	255	266	2954	567	0	33	159	0	111	0	9	0	4354
Squawfish, Northern...	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Cod, Pacific.....	0	339240	35525	0	0	69214	0	37	3559	0	0	0	39	0	446314
Flounder, arrowtooth..	0	192867	17464	0	1	15270	0	13	14755	0	2	0	986	0	242358
Flounder, starry.....	3913	96851	4573	0	1	21225	0	98	5981	0	0	0	571	0	133213
Greenling.....	0	0	0	0	85	14	0	0	0	0	0	0	0	0	99
Grenadier.....	0	0	0	0	0	0	0	0	4064	0	0	0	13856	0	17920
Hagfish.....	0	58561	0	0	0	44695	0	0	0	0	0	0	0	0	103256
Hake, Pac. (Whiting) ..	0	1069	0	0	0	13459	0	0	97	0	0	0	0	0	14625
Halibut, Pacific.....	0	927789	64653	402	3498	196795	0	48921	33354	5364	21268	0	422	0	1302466
Herring, Pacific.....	0	0	0	0	0	267416	0	41	0	0	0	0	0	0	267457
Leaprey.....	0	0	0	0	0	0	0	0	0	0	0	0	0	2950	2950
Lingcod.....	0	348190	59316	11441	9454	186507	236	2471	170436	409	30065	1835	48941	6	871307
Mackerel.....	0	8	218	252	143	524	0	0	29	0	0	0	0	0	1174
Pollock, walleye.....	0	0	0	0	0	0	0	0	5	0	0	0	0	0	5
Ratfish.....	0	0	0	0	0	11	0	0	0	0	0	0	0	0	11
Pac. Co. Perch.....	0	340731	1951	0	0	67041	0	0	22443	0	0	0	0	0	432166
Nominal POP.....	0	167685	163467	0	0	246063	0	54	139583	0	0	0	20555	0	737407
Rockfish, widow.....	0	1052418	71919	0	0	2214738	86	0	343058	0	0	0	241097	0	3923316
Rockfish, yellowtail..	0	737266	65279	0	0	119004	48	1	138514	0	0	0	39627	0	1099739
Rifsh, Sebastolebus...	0	471318	29646	0	0	124055	0	29	754619	251	0	0	670522	0	2050440
Rockfish, other spp...	0	1355923	104894	14715	18336	975925	900	4578	492513	5343	96487	1795	63268	42	3134719
Sablefish.....	0	835830	90921	0	4708	893760	286631	102260	1202690	77811	25062	0	324869	0	3834542
Salmon, chinook.....	2777549	109745	569618	138722	35780	1699967	286094	719469	2983957	294129	640890	20898	374911	7672	10659401
Salmon, chum.....	1714	0	51	77	0	210	0	87	5	0	0	0	0	0	2144
Salmon, coho.....	1323196	126729	224294	239763	92328	510025	90487	194659	360805	68855	64320	0	8455	51038	3454954
Salmon, pink.....	0	165	2849	2612	391	2378	38	948	2914	230	528	0	36	122	13111

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

SPECIES	COLUMBIA		PACIFIC		DEPOE		WINCHESTER			FORT		GOLD		OTHER 2/	TOTAL
	RIVER 1/	ASTORIA	GARIBALDI	CITY	BAY	NEWPORT	FLORENCE	BAY	CHARLESTON	BANDON	ORFORD	BEACH	BROOKINGS	LOCATIONS	
Salmon, sockeye.....	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Sanddab, Pacific.....	0	20563	2708	0	0	14074	0	0	3253	0	0	0	771	0	41369
Sculpin.....	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Irish Lord, Brown.....	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Irish Lord, Red.....	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Sculpin, Buffalo.....	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Shad, American.....	29632	6	1	0	0	0	9962	34049	0	0	0	0	0	0	73650
Shark, sixgill.....	0	0	0	0	20	22	0	0	6	0	26	0	0	0	74
Shark, soupfin.....	0	1822	87	0	19	545	0	0	104	0	0	0	535	0	3114
Shark, spiny dogfish..	0	279	0	0	19	35	0	0	0	0	0	0	0	0	333
Shark, thresher.....	0	49	0	0	0	6	0	0	0	0	0	0	0	0	49
Shark, other.....	0	73	13	0	0	9	0	0	0	0	0	0	0	0	95
Skates and rays.....	0	138	408	0	0	1987	0	51	70	0	0	0	0	0	2654
Smelt.....	4194	0	0	0	0	0	0	0	0	0	0	0	1924	0	6118
Smelt, Whitebait.....	0	0	0	0	0	0	0	0	0	0	0	0	1451	0	1451
Sole, butter.....	0	0	324	0	0	0	0	0	0	0	0	0	293	0	617
Sole, curlfin (turbot)	0	0	33	0	0	941	0	2	931	0	0	0	0	0	1907
Sole, Dover.....	0	2453389	287795	0	1	494467	0	26	1947723	0	0	0	288699	0	5472600
Sole, English.....	0	309555	20816	0	0	105996	0	0	113382	0	0	0	13089	0	562838
Sole, flathead.....	0	2742	13	0	0	0	0	0	0	0	0	0	0	0	2755
Sole, petrale.....	0	629807	98818	0	0	299023	0	19	598324	0	0	0	53984	0	1589975
Sole, rex.....	0	150632	9904	0	0	34990	0	0	17034	0	0	0	15345	0	227305
Sole, rock.....	0	0	0	0	0	198	0	0	1909	0	0	0	5	0	2112
Sole, sand.....	0	175911	32882	0	0	86329	0	562	52089	0	0	0	12099	0	363872
Steelhead.....	136572	0	0	0	0	0	0	0	0	0	0	0	0	0	136572
Sturgeon, green.....	1717	1164	282	0	0	1788	0	0	526	0	0	0	27	0	5444
Sturgeon, white.....	394724	188	0	0	0	313	0	0	0	0	0	0	0	0	395225
Sucker, largescale....	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Sunperch.....	0	0	0	0	1	593	0	0	31	0	0	0	2195	0	2810

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

SPECIES	COLUMBIA		PACIFIC		DEPOE		WINCHESTER			PORT	GOLD		OTHER 2/	TOTAL	
	RIVER 1/	ASTORIA	GARIBALDI	CITY	BAY	NEWPORT	FLORENCE	BAY	CHARLESTON	BANDON	ORFORD	BEACH	BROOKINGS		LOCATIONS
Tuna, albacore.....	0	341753	297	0	0	255264	4559	80939	174004	11261	0	222	18942	0	837241
Walleye.....	4649	0	0	0	0	0	0	0	0	0	0	0	0	0	4649
Wolf-eel.....	0	453	271	23	334	218	0	1	170	0	1	0	0	0	1471
Wrygouth.....	0	12	0	0	0	5	0	1	0	0	0	0	0	0	18
CRUSTACEANS:															
Barnacle, Gooseneck...	0	0	0	0	113	0	0	0	0	0	0	0	0	1825	1938
Crab, box.....	0	0	0	0	0	108	0	0	0	0	0	0	0	0	108
Crab, Dungeness, Bay..	0	0	33	0	0	2044	6559	10632	51752	221	0	0	0	30330	101571
Crab, Dungeness, Oc...	0	4555019	651514	323	78291	3259219	318621	786506	1711666	12921	489695	8610	1589303	0	13462688
Crab, mole.....	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8
Crab, rock.....	0	0	0	0	4	4033	0	0	0	0	0	0	0	0	4037
Crab, Tanner.....	0	0	0	0	0	16	0	0	0	0	0	0	0	0	16
Crayfish.....	0	0	0	0	0	0	0	0	0	0	0	0	0	318466	318466
Shrimp, brine.....	0	0	0	0	0	0	0	0	0	0	0	0	0	46260	46260
Shrimp, ghost.....	0	0	7966	6287	0	0	363	0	19602	0	0	0	0	63685	97903
Shrimp, mud.....	0	0	22351	0	0	0	0	0	90	0	0	0	0	44682	67123
Shrimp, pink.....	0	3709869	843933	0	0	6716440	0	26666	4797552	0	113087	0	1699718	0	17906265
Shrimp, spot.....	0	259	0	0	0	0	0	0	0	0	0	0	0	0	259
Water flea (Daphnia)...	0	0	0	0	0	0	0	0	0	0	0	0	0	3000	3000
MOLLUSKS:															
Clams, butter.....	0	0	643	0	0	0	0	0	904	0	0	0	0	0	1547
Clams, cockle.....	0	0	20031	0	0	0	0	53	256	0	0	0	0	303	20643
Clams, gaper.....	0	0	50	0	0	1122	0	0	578	0	0	0	0	0	1750
Clams, littleneck.....	0	0	3814	0	0	0	0	0	5	0	0	0	0	132	8951
Clams, softshell.....	0	0	0	0	0	59	271	0	102	16	0	0	0	11	450
Clams, razor.....	0	0	0	0	0	0	0	0	0	0	0	0	0	87962	87962
Mussels, ocean.....	0	0	0	0	1260	506	429	13559	231	2590	840	0	0	2456	21871
Mussels, freshwater...	0	0	0	0	0	0	0	0	0	0	0	0	0	1094	1094
Octopus.....	0	1713	689	0	182	1347	0	0	152	0	646	12	3884	0	8625

TABLE 42. ESTIMATED VALUE (1), AT THE FISHERMEN'S LEVEL, OF COMMERCIAL FISH AND SHELLFISH LANDINGS BY PORT IN OREGON, 1989 (CONT.)

SPECIES	COLUMBIA		PACIFIC		DEPOE		WINCHESTER			PORT	GOLD	OTHER 2/		TOTAL	
	RIVER 1/	ASTORIA	GARIBALDI	CITY	BAY	NEWPORT	FLORENCE	BAY	CHARLESTON	BANDON	ORFORD	BEACH	BROOKINGS		LOCATIONS
Scallops, rock.....	0	0	0	0	0	0	0	0	0	0	10	0	0	0	10
Squid.....	0	0	1	0	0	7682	0	0	0	0	0	0	0	0	7683
OTHER INVERTEBRATES:															
Sea urchins, red.....	0	0	0	0	2608	31148	0	0	27373	0	2109250	538871	19022	0	2728272
Bloodworms.....	0	0	0	0	0	0	0	0	11	0	0	0	0	0	11
Worms, tube.....	0	0	0	0	0	0	0	0	773	0	0	0	0	0	773
TOTAL	4667905	19523381	3617572	414383	250531	18981319	1005284	2028665	16104143	479401	3592268	572251	5527440	662039	77427102

1/ OREGON LANDINGS ONLY

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

SEE TABLE 43 FOR LANDINGS OF CRAYFISH, FRESHWATER MUSSELS, PACIFIC LAMPREY AND BRINE SHRIMP BY COUNTY.

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Anchovy, northern.....	0	0	0	0	0	0	0	0	15	0	0	0	15
Cabezon.....	167	156	103	1188	1486	106	320	175	373	16	103	161	4354
Squawfish, Northern...	0	0	0	1	0	1	0	0	0	0	0	0	2
Cod, Pacific.....	17128	9091	5141	38286	50453	63699	87969	108966	37656	10105	3931	15389	448314
Flounder, arrowtooth..	11217	16259	10761	13452	18092	31485	39276	30558	25414	18113	15180	12551	242358
Flounder, starry.....	333	1390	907	2620	50131	26543	15148	17933	15845	1059	240	1064	133213
Greenling.....	1	0	0	11	20	26	24	17	0	0	0	0	99
Grenadier.....	38	174	1160	2032	1226	1758	2119	2916	3093	1753	1418	232	17920
Hagfish.....	0	0	0	0	0	0	16520	3519	24719	29931	18779	9788	103256
Hake, Pac. (Whiting)..	0	0	0	5168	749	0	0	0	3442	2949	2297	0	14625
Halibut, Pacific.....	0	120	0	0	37529	408257	52617	81359	455450	267050	30	54	1302466
Herring, Pacific.....	0	264736	108	2570	0	41	2	0	0	0	0	0	267457
Lamprey.....	0	0	0	0	0	2354	596	0	0	0	0	0	2950
Lingcod.....	16662	34625	26593	51595	85715	100146	112310	123304	160733	97430	28228	33966	871367
hackeral.....	0	0	0	0	0	15	704	447	7	1	0	0	1174
Pollock, walleye.....	0	5	0	0	0	0	0	0	0	0	0	0	5
Ratfish.....	0	0	0	0	0	0	8	3	0	0	0	0	11
Pac. Oc. Perch.....	28673	38063	28768	47971	58092	60515	61551	35650	39299	24506	9054	24	432166
Nominal POP.....	38189	98726	37980	56161	45591	60891	79224	84242	69421	48357	23830	44795	737407
Rockfish, widow.....	845327	746746	579624	518373	127342	123448	219015	275478	316005	127890	14344	29724	3923316
Rockfish, yellowtail..	97543	87651	67732	119189	147852	131776	108823	83157	130334	70681	20142	34859	1099739
Rkfish, Sebastolobus...	130437	156238	166257	185645	157199	123836	212650	200396	123308	159654	206333	230987	2050440
Rockfish, other spp...	200871	205635	127035	325531	332686	305829	390791	372833	383490	285142	128023	165843	3134719
Sablefish.....	225224	212608	218071	473609	646522	566116	576299	195686	186756	189240	153514	190897	3834542
Salmon, chinook.....	0	273598	298266	2478	2236554	1387294	1558216	2254532	1950047	534899	163517	0	10659401
Salmon, chum.....	0	0	0	0	218	116	80	16	4	1203	507	0	2144
Salmon, coho.....	0	0	0	0	0	8260	1657368	407255	404291	869440	108340	0	3454954
Salmon, pink.....	0	0	0	0	928	1918	7708	2548	9	0	0	0	13111
Salmon, sockeye.....	0	0	0	0	0	0	0	26	4	0	0	0	30

TABLE 43. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS IN OREGON, 1969. (CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Sanddab, Pacific.....	3988	6999	2353	5314	3570	2084	3815	4222	4053	1695	746	2715	41369
Sculpin.....	0	0	0	0	0	0	1	0	0	0	0	0	1
Irish Lord, Brown.....	0	0	0	1	0	0	0	0	0	0	0	0	1
Irish Lord, Red.....	0	0	0	0	1	0	0	0	0	0	0	0	1
Sculpin, Buffalo.....	0	0	0	1	0	0	0	0	0	0	0	0	1
Shad, American.....	0	0	0	0	27845	45446	352	0	7	0	0	0	73650
Shark, sixgill.....	0	6	0	0	0	20	0	22	0	0	26	0	74
Shark, soupfin.....	20	350	0	14	90	464	576	275	76	143	450	656	3114
Shark, spiny dogfish..	0	0	0	10	2	7	16	17	2	273	0	6	333
Shark, thrasher.....	49	0	0	0	0	0	0	0	0	0	0	0	49
Shark, other.....	0	0	0	0	0	0	9	86	0	0	0	0	95
Skates and rays.....	217	579	263	49	87	257	216	577	315	0	53	36	2654
Smelt.....	0	80	4114	0	131	641	949	203	0	0	0	0	6118
Smelt, Whitebait.....	0	0	0	0	368	30	1052	0	0	0	0	0	1451
Sole, butter.....	0	0	0	0	16	0	0	307	1	293	0	0	617
Sole, curlfin (turbot)	0	61	19	76	930	347	430	42	0	0	0	2	1907
Sole, Dover.....	539120	452309	469056	661368	395238	270781	327437	396756	472993	500439	442168	544735	5472600
Sole, English.....	26293	58041	15347	28258	44041	68980	88274	73277	80172	38211	19597	22347	562338
Sole, flathead.....	0	0	0	0	3	77	330	271	0	2074	0	0	2755
Sole, petrale.....	398801	194473	74496	70838	39734	53007	108992	121630	125714	67335	69600	267355	1589975
Sole, rex.....	16744	27487	11313	19039	18066	22649	25639	22904	29779	16951	6312	10422	227305
Sole, rock.....	0	0	0	36	100	1328	521	91	5	1	30	0	2112
Sole, sand.....	4302	3686	3758	6663	51759	68514	53975	96691	59005	9801	894	2324	363872
Steelhead.....	0	5794	25570	0	0	0	0	26279	78929	0	0	0	136572
Sturgeon, green.....	116	105	97	68	777	1144	297	437	1943	319	63	58	5444
Sturgeon, white.....	1765	57533	119301	2735	0	322	30	116126	53394	24664	9355	0	385225
Sucker, largescale....	0	0	0	1	0	0	0	0	0	0	0	0	1
Surfperch.....	13	279	685	755	3	164	288	297	0	144	170	12	2810
Tuna, albacore.....	0	0	0	0	0	0	31421	302378	410099	134844	8499	0	887241
Walleye.....	0	104	3808	0	0	0	0	308	429	0	0	0	4649

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Wolf-eel.....	4	15	20	162	462	228	142	174	177	45	2	19	1471
Wrymouth.....	0	0	0	0	0	0	6	7	0	0	3	2	18
CRUSTACEANS:													
Barnacle, Gooseneck..	450	1375	0	26	65	9	0	8	2	3	0	0	1938
Crab, box.....	5	0	0	0	0	0	12	7	76	0	0	8	108
Crab, Dungeness, Bay..	0	0	0	3	0	0	0	0	34048	35336	31017	1167	101571
Crab, Dungeness, Oc...	3025041	1501738	617066	729395	619150	226365	230436	122277	0	0	0	6350720	13462688
Crab, mole.....	0	0	5	3	0	0	0	0	0	0	0	0	8
Crab, rock.....	763	810	902	215	553	127	203	104	79	20	125	136	4037
Crab, Tanner.....	0	0	0	0	0	0	4	12	0	0	0	0	16
Crayfish.....	0	0	0	6221	17943	27758	88062	63546	52078	26958	0	0	318466
Shrimp, brine.....	0	0	0	0	9300	13950	19210	3800	0	0	0	0	46260
Shrimp, ghost.....	5792	2933	5546	8212	13147	15211	10907	7292	9375	10951	5381	3156	97903
Shrimp, mud.....	13279	7544	9382	5332	1917	1409	1210	2027	2413	3028	8164	11418	67123
Shrimp, pink.....	0	0	0	3211099	3526202	2611249	1243702	2872652	2569657	1871704	0	0	17906265
Shrimp, spot.....	0	0	0	0	0	0	259	0	0	0	0	0	259
Water flea (Daphnia)..	0	3000	0	0	0	0	0	0	0	0	0	0	3000
MOLLUSKS:													
Clams, butter.....	0	95	146	406	411	41	31	0	0	215	99	53	1547
Clams, cockle.....	2117	1810	2045	5179	428	3901	0	1308	350	120	187	3198	20643
Clams, gaper.....	30	413	0	0	0	0	0	66	9	188	386	658	1750
Clams, littlenack....	59	68	94	891	429	213	1150	2150	2251	1482	179	75	8951
Clams, softshell.....	0	0	0	98	166	0	201	45	0	0	0	0	450
Clams, razor.....	6055	4066	6223	23569	21335	11482	2666	0	2024	4559	3566	2417	87962
Mussels, ocean.....	1779	1386	1301	4199	2898	2879	1422	959	942	1585	1028	1493	21871
Mussels, freshwater...	0	0	0	0	0	0	0	0	1094	0	0	0	1094
Octopus.....	818	689	406	784	456	852	650	570	375	185	137	2703	8625
Scallops, rock.....	0	6	0	4	0	0	0	0	0	0	0	0	10
Squid.....	0	0	0	0	7679	0	0	0	3	0	1	0	7683

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
OTHER INVERTEBRATES:													
Sea urchins, red.....	87713	148236	101186	345831	384705	253396	211576	206252	345956	223277	147348	272796	2728272
Bloodworms.....	0	0	0	0	11	0	0	0	0	0	0	0	11
Worms, tube.....	0	0	24	0	355	310	84	0	0	0	0	0	773
TOTAL	5799543	4627892	3043037	6981186	9189718	7146282	7603342	8727478	8667545	5716162	1653396	8271521	77427102

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<u>BELOW BONNEVILLE DAM</u>													
FISH:													
Anchovy, northern.....	0	0	0	0	0	0	0	0	15	0	0	0	15
Flounder, starry.....	0	48	266	0	0	0	0	428	2876	295	0	0	3913
Salmon, chinook.....	0	273598	298266	0	0	0	0	583007	782732	131050	10903	0	2079556
Salmon, chum.....	0	0	0	0	0	0	0	0	4	1203	507	0	1714
Salmon, coho.....	0	0	0	0	0	0	0	3194	339496	869440	108340	0	1320470
Shad, American.....	0	0	0	0	15105	14349	178	0	0	0	0	0	29632
Smelt.....	0	30	4114	0	0	0	0	0	0	0	0	0	4194
Sturgeon, green.....	0	0	0	0	0	0	0	121	1404	169	23	0	1717
Sturgeon, white.....	0	9192	5798	0	0	0	0	116059	53394	24664	9302	0	218409
TOTAL	0	282918	308444	0	15105	14349	178	702809	1179921	1026321	129075	0	3659620
<u>ABOVE BONNEVILLE DAM</u>													
FISH:													
Salmon, chinook.....	0	0	0	2478	0	0	0	171379	524136	0	0	0	697993
Salmon, coho.....	0	0	0	0	0	0	0	102	2624	0	0	0	2726
Salmon, sockeye.....	0	0	0	0	0	0	0	26	4	0	0	0	30
Steelhead.....	0	5794	25570	0	0	0	0	26279	78929	0	0	0	136572
Sturgeon, white.....	1736	48341	113503	2735	0	0	0	0	0	0	0	0	166315
Walleye.....	0	104	3808	0	0	0	0	308	429	0	0	0	4649
TOTAL	1736	54239	142981	5213	0	0	0	198094	606122	0	0	0	1008285
TOTAL	1736	337157	451325	5213	15105	14349	178	900903	1786043	1026821	129075	0	4667905

1/ OREGON LANDINGS ONLY

TABLE 45. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT ASTORIA, 1989. 1 / 21

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cod, Pacific.....	7563	6974	4035	36590	44785	46566	73746	59433	32636	8550	2774	15488	339940
Flounder, arrowtooth..	9532	12129	7644	10968	15114	27340	33698	26781	19629	12216	8827	9469	193867
Flounder, starry.....	0	756	130	2471	46711	18645	5398	14032	7933	410	227	138	96851
Hagfish.....	0	0	0	0	0	0	16520	3519	0	9955	18779	9788	58561
Hake, Pac. (Whiting)..	0	0	0	320	749	0	0	0	0	0	0	0	1069
Halibut, Pacific.....	0	0	0	0	19456	184517	208	81270	375769	266569	0	0	927789
Lingcod.....	6284	7775	4751	10383	25952	48379	36246	62374	72372	45521	12179	15974	348190
Macreral.....	0	0	0	0	0	0	0	7	1	0	0	0	8
Pac. Oc. Perch.....	17924	20708	21689	39656	49719	51044	50692	28638	32462	20557	7642	0	340731
Nominal POP.....	7563	4017	1180	1868	12533	20671	32649	30867	25866	12322	7734	11010	167685
Rockfish, widow.....	158529	180812	99446	134775	41470	66614	75741	102527	119762	50861	5260	16621	1052418
Rockfish, yellowtail..	45109	41441	49493	82645	96953	97169	89360	59991	97910	41124	10769	25302	737266
Rkfish, Sebastolobus...	31729	24279	35295	63366	44137	47463	37401	33772	21411	42970	35295	54200	471318
Rockfish, other spp...	59229	55052	63317	152163	150343	166264	132358	157126	165563	147521	54288	52699	1355923
Sablefish.....	67168	51958	64638	110481	75224	77400	57028	61213	56950	60543	59233	93994	835830
Salmon, chinook.....	0	0	0	0	37699	20260	9225	23785	18616	160	0	0	109745
Salmon, coho.....	0	0	0	0	0	0	14146	58994	53589	0	0	0	126729
Salmon, pink.....	0	0	0	0	0	16	136	8	5	0	0	0	165
Sanddab, Pacific.....	320	2014	284	3775	2994	1284	2977	2225	1753	805	252	1680	20563
Shad, American.....	0	0	0	0	0	0	0	0	6	0	0	0	6
Shark, soupfin.....	20	0	0	14	0	149	545	261	38	0	168	627	1822
Shark, spiny dogfish..	0	0	0	0	0	0	0	0	0	273	0	6	279
Shark, thresher.....	49	0	0	0	0	0	0	0	0	0	0	0	49
Shark, other.....	0	0	0	0	0	0	0	73	0	0	0	0	73
Skates and rays.....	0	65	0	0	0	0	2	0	41	0	30	0	138
Sole, Dover.....	162442	168287	230561	407846	193968	120150	144466	179842	206464	177162	185207	277474	2453889
Sole, English.....	10753	33568	5164	13040	28475	46980	62650	35969	35937	15814	7817	13388	309555
Sole, flathead.....	0	0	0	0	3	77	330	271	0	2061	0	0	2742
Sole, petrale.....	122213	81132	38195	58191	29579	33327	37270	33207	48203	26023	23891	98576	629807

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Sole, rex.....	7667	13190	5156	13959	14051	17259	19387	17202	21488	11120	3829	5724	150032
Sole, sand.....	0	811	1158	4890	26583	23153	21795	61717	33624	3009	848	2323	179911
Sturgeon, green.....	0	16	0	68	225	439	91	96	66	123	40	0	1164
Sturgeon, white.....	0	0	0	0	0	38	30	67	0	0	53	0	168
Tuna, albacore.....	0	0	0	0	0	0	9258	60314	220856	50117	1208	0	341753
Wolf-eel.....	0	0	0	19	107	134	47	75	49	22	0	0	453
Wrymouth.....	0	0	0	0	0	0	3	4	0	0	3	2	12
CRUSTACEANS:													
Crab, Dungeness, Oc...	1544755	761739	242943	386929	272799	107482	114790	36288	0	0	0	1087294	4555019
Shrimp, pink.....	0	0	0	570498	780349	679659	369838	583831	432166	293528	0	0	3709869
Shrimp, spot.....	0	0	0	0	0	0	259	0	0	0	0	0	259
MOLLUSKS:													
Octopus.....	0	138	68	208	272	381	262	143	160	53	18	10	1713
TOTAL	2258854	1466861	875947	2105123	2010250	1903360	1447952	1815922	2101345	1299389	446371	1792007	19523381

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

2/ INCLUDES LANDINGS AT WARRENTON AND HAMMOND.

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

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

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

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

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

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

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	0	0	0	2	5	0	0	62	177	5	4	0	255
Cod, Pacific.....	5773	1868	84	1377	3296	6200	5463	7981	1554	644	1099	146	35525
Flounder, arrowtooth..	152	2595	976	1434	463	570	783	231	2325	2611	3821	1503	17464
Flounder, starry.....	0	0	0	0	23	0	450	2048	1998	54	0	0	4573
Halibut, Pacific.....	0	0	0	0	17323	191	0	0	47139	0	0	0	64653
Lingcod.....	3162	2646	466	4572	13140	3784	5729	3604	4093	11835	2213	4072	59316
Mackeral.....	0	0	0	0	0	0	157	60	0	1	0	0	218
Pac. Oc. Perch.....	947	631	0	0	270	0	7	72	0	0	0	24	1951
Nominal POP.....	6739	26813	7089	19778	14591	11577	17348	12248	16634	13980	3349	13321	163467
Rockfish, widow.....	8360	3710	3272	31424	13013	4095	1602	979	2882	2017	436	129	71919
Rockfish, yellowtail..	5465	8996	1654	10287	19276	9407	987	1277	2751	369	2443	2367	65279
Rkfsh, Sebastolobus...	834	2454	1930	4978	2187	667	1628	2296	2216	3167	2624	4665	29646
Rockfish, other spp...	10098	10294	842	14968	16397	8037	8692	10467	6600	9555	3796	5098	104894
Sablefish.....	5092	7044	7863	9137	6245	4102	4322	6823	9624	10819	9071	6279	90921
Salmon, chinook.....	0	0	0	0	80947	117767	74348	54611	184388	57557	0	0	569618
Salmon, chum.....	0	0	0	0	14	0	37	0	0	0	0	0	51
Salmon, coho.....	0	0	0	0	0	0	277519	46079	696	0	0	0	324294
Salmon, pink.....	0	0	0	0	99	365	1718	647	0	0	0	0	2849
Sanddab, Pacific.....	0	0	0	366	237	191	198	195	671	428	432	0	2708
Shad, American.....	0	0	0	0	0	0	0	0	1	0	0	0	1
Shark, soupfin.....	0	26	0	0	0	0	25	0	38	0	0	0	89
Shark, other.....	0	0	0	0	0	0	0	13	0	0	0	0	13
Skates and rays.....	0	0	0	0	0	0	0	363	45	0	0	0	408
Sole, butter.....	0	0	0	0	16	0	0	307	1	0	0	0	324
Sole, carlfin (turbot)	0	0	0	0	18	0	0	15	0	0	0	0	33
Sole, Dover.....	10738	17051	15594	44975	18313	9364	10125	19243	25613	29860	60479	26420	287795
Sole, English.....	243	664	149	1202	949	1530	1429	4071	3734	1740	4988	117	20616
Sole, flathead.....	0	0	0	0	0	0	0	0	0	13	0	0	13
Sole, petrale.....	5552	20739	19329	2710	1417	4654	6714	5730	5287	3885	5923	16678	98818

TABLE 47. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT GARIEALDI, 1969.

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Sole, rex.....	283	1195	296	1480	653	650	1582	1477	758	582	475	468	9904
Sole, sand.....	0	0	0	0	464	46	0	20250	11570	535	17	0	32882
Sturgeon, green.....	0	0	0	0	0	0	0	114	158	10	0	0	282
Tuna, albacore.....	0	0	0	0	0	0	297	0	0	0	0	0	297
Wolf-eel.....	0	0	0	0	26	1	2	91	126	23	2	0	271
CRUSTACEANS:													
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	0	0	9	24	33
Crab, Dungeness, Oc...	119663	104610	54875	88838	86254	41325	32576	8799	0	0	0	114574	651514
Shrimp, ghost.....	119	48	278	761	1062	1096	1155	1010	806	833	569	229	7966
Shrimp, mud.....	5247	2304	4306	2314	561	426	301	353	665	379	2204	2771	22351
Shrimp, pink.....	0	0	0	151398	176186	151866	50829	129353	118197	66104	0	0	843933
MOLLUSKS:													
Clams, butter.....	0	0	0	259	279	0	81	0	0	0	24	0	643
Clams, cockle.....	2064	1810	2000	5040	233	3899	0	1308	350	120	72	3135	20031
Clams, gaper.....	0	0	0	0	0	0	0	0	0	0	50	0	50
Clams, littleneck.....	59	68	94	801	429	213	1150	2150	2251	1350	176	73	8614
Octopus.....	0	30	85	32	15	190	61	159	63	34	6	14	639
Squid.....	0	0	0	0	0	0	0	0	0	0	1	0	1
OTHER INVERTEBRATES:													
TOTAL	190590	215616	121182	598133	476406	382273	507835	344486	453431	219030	104283	204307	3617572

TABLE 4B. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT NETARTS BAY, 1989.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Rockfish, other spp...	0	0	0	0	0	0	15	0	0	0	0	0	15
Salmon, chinook.....	0	0	0	0	0	0	432	0	0	143	0	0	575
Salmon, coho.....	0	0	0	0	0	0	3912	120	0	0	0	0	4032
CRUSTACEANS:													
Barnacle, Gooseneck...	450	1375	0	0	0	0	0	0	0	0	0	0	1825
Shrimp, mud.....	7568	5048	4904	2991	1337	983	909	1674	1723	2149	5960	8647	43898
MOLLUSKS:													
Mussels, ocean.....	600	600	0	300	0	550	0	0	300	0	0	0	2350
TOTAL	8618	7023	4904	3291	1337	1533	5268	1794	2028	2292	5960	8647	52695

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	0	1	35	83	48	13	32	24	0	2	28	0	266
Halibut, Pacific.....	0	0	0	0	0	402	0	0	0	0	0	0	402
Lingcod.....	0	452	1990	3470	870	367	1006	1447	384	1035	370	0	11441
Mackerel.....	0	0	0	0	0	0	214	38	0	0	0	0	252
Rockfish, other spp....	0	0	588	2480	3122	1532	2122	3221	995	639	16	0	14715
Salmon, chinook.....	0	0	0	0	4756	3309	45434	41563	37102	6558	0	0	138722
Salmon, chum.....	0	0	0	0	50	0	11	16	0	0	0	0	77
Salmon, coho.....	0	0	0	0	0	0	187690	48538	3535	0	0	0	239763
Salmon, pink.....	0	0	0	0	0	0	1909	703	0	0	0	0	2612
Wolf-eel.....	0	0	0	0	2	3	16	2	0	0	0	0	23
CRUSTACEANS:													
Crab, Dungeness, Oc....	0	0	0	0	105	122	0	96	0	0	0	0	323
Shrimp, ghost.....	146	86	158	213	424	402	652	886	1123	1515	423	257	6287
TOTAL	146	539	2771	6246	9377	6150	239086	96536	43139	9799	937	257	414883

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

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

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	124	83	68	1018	1274	81	165	55	6	9	71	0	2954
Flounder, arrowtooth..	0	1	0	0	0	0	0	0	0	0	0	0	1
Flounder, starry.....	0	0	0	0	0	0	0	1	0	0	0	0	1
Greenling.....	0	0	0	1	19	26	23	16	0	0	0	0	85
Halibut, Pacific.....	0	0	0	0	0	3498	0	0	0	0	0	0	3498
Lingcod.....	72	963	914	2660	2271	556	833	355	280	103	213	234	9454
Mackerel.....	0	0	0	0	0	0	137	6	0	0	0	0	143
Rockfish, other spp..	55	261	896	4426	3556	2341	4694	1857	107	72	26	45	19336
Sablefish.....	0	898	0	3799	0	0	11	0	0	0	0	0	4708
Salmon, chinook.....	0	0	0	0	6128	2847	11635	7107	3437	4626	0	0	35780
Salmon, coho.....	0	0	0	0	0	0	90199	2129	0	0	0	0	92328
Salmon, pink.....	0	0	0	0	0	0	341	50	0	0	0	0	391
Shark, sixgill.....	0	0	0	0	0	20	0	0	0	0	0	0	20
Shark, soupfin.....	0	0	0	0	0	0	0	0	0	0	19	0	19
Shark, spiny dogfish..	0	0	0	10	2	0	0	7	0	0	0	0	19
Sole, Dover.....	0	0	0	0	0	0	1	0	0	0	0	0	1
Surfperch.....	0	0	1	0	0	0	0	0	0	0	0	0	1
Wolf-eel.....	3	4	6	93	184	44	0	0	0	0	0	0	334
CRUSTACEANS:													
Barnacle, Gooseneck...	0	0	0	26	65	9	0	8	2	3	0	0	113
Crab, Dungeness, Oc...	29463	16791	6616	7806	3528	2736	532	0	0	0	0	10819	78291
Crab, rock.....	0	0	0	0	4	0	0	0	0	0	0	0	4
MOLLUSKS:													
Mussels, ocean.....	0	0	30	149	156	169	290	133	102	63	100	68	1260
Octopus.....	24	0	54	83	5	16	0	0	0	0	0	0	182
OTHER INVERTEBRATES:													
Sea urchins, red.....	0	0	0	0	0	0	2608	0	0	0	0	0	2608
TOTAL	29741	19001	8585	20071	17192	12343	111469	11724	3934	4676	429	11166	250531

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	0	2	0	34	59	9	123	30	152	0	0	158	567
Cod, Pacific.....	3075	186	1	312	2092	9862	8287	41377	3151	738	47	86	69214
Flounder, arrowtooth..	726	554	1634	531	1397	1483	2138	1771	939	2533	1135	429	15270
Flounder, starry.....	85	384	470	76	3389	6951	6978	168	2574	92	2	56	21225
Greenling.....	1	0	0	10	1	0	1	1	0	0	0	0	14
Hagfish.....	0	0	0	0	0	0	0	0	24719	19976	0	0	44695
Hake, Pac. (Whiting)...	0	0	0	4868	0	0	0	0	3442	2949	2200	0	13459
Halibut, Pacific.....	0	120	0	0	750	155954	6775	89	32542	481	30	54	196795
Herring, Pacific.....	0	264736	108	2570	0	0	2	0	0	0	0	0	267416
Lingcod.....	2324	4703	7371	12790	16170	15558	40835	32755	38200	9276	3835	4690	188507
Maceral.....	0	0	0	0	0	0	183	335	6	0	0	0	524
Ratfish.....	0	0	0	0	0	0	8	3	0	0	0	0	11
Pac. Oc. Perch.....	7006	13344	6237	6269	4289	5206	6938	6441	6494	3405	1412	0	67041
Nominal POP.....	60246	52919	20348	20264	6371	13048	16250	23751	11159	7978	3611	9518	246063
Rockfish, widow.....	511874	484543	432992	327162	35245	14112	101934	128513	114663	49022	5690	8988	2214738
Rockfish, yellowtail..	14534	18083	9793	12145	8230	9172	11780	12015	10941	5130	3215	3966	119004
Rkfish, Sebastolobus...	13151	12353	8801	5099	9367	2368	13592	14328	6224	18075	8482	12215	124055
Rockfish, other spp...	64681	83333	35415	103231	95269	63024	84501	150514	117152	68952	43306	66547	975925
Sablefish.....	14462	17556	11920	54012	174126	237709	218554	40653	34754	46430	19155	14429	833760
Salmon, chinook.....	0	0	0	0	499902	352917	443074	202435	92021	102864	6734	0	1699967
Salmon, chum.....	0	0	0	0	67	116	27	0	0	0	0	0	210
Salmon, coho.....	0	0	0	0	0	0	466499	43526	0	0	0	0	510025
Salmon, pink.....	0	0	0	0	8	79	1300	491	0	0	0	0	2378
Sanddab, Pacific.....	3387	3782	1401	1044	0	0	394	1641	1329	270	0	826	14074
Sculpin.....	0	0	0	0	0	0	1	0	0	0	0	0	1
Irish Lord, Brown. ...	0	0	0	1	0	0	0	0	0	0	0	0	1
Irish Lord, Red.....	0	0	0	0	1	0	0	0	0	0	0	0	1
Sculpin, Buffalo.....	0	0	0	1	0	0	0	0	0	0	0	0	1
Shark, sixgill.....	0	0	0	0	0	0	0	22	0	0	0	0	22

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

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Shark, soupfin.....	0	163	0	0	0	283	6	14	0	79	0	0	545
Shark, spiny dogfish..	0	0	0	0	0	7	16	10	2	0	0	0	35
Shark, other.....	0	0	0	0	0	0	9	0	0	0	0	0	9
Skates and rays.....	217	444	268	0	87	255	214	214	229	0	23	36	1987
Sole, curifin (turbot)	0	0	0	7	912	20	0	0	0	0	0	2	941
Sole, Dover.....	35794	25304	16422	9310	19155	16400	49567	42799	64851	114493	60450	39922	494467
Sole, English.....	3081	7269	1820	2102	5933	9589	13267	20962	25662	10362	2644	3305	105996
Sole, petrale.....	35432	14858	3694	1504	4697	10710	54400	67436	50531	22740	10202	22819	249023
Sole, rex.....	3392	7653	2654	1328	996	2155	2282	2785	5533	3413	959	1840	34990
Sole, rock.....	0	0	0	0	100	60	6	1	0	1	30	0	198
Sole, sand.....	1281	722	1307	1275	24529	37902	8516	287	9654	826	29	1	86329
Sturgeon, green.....	116	62	97	0	572	547	43	0	216	17	0	58	1728
Sturgeon, white.....	29	0	0	0	0	284	0	0	0	0	0	0	313
Surfperch.....	13	1	0	9	3	164	144	259	0	0	0	0	593
Tuna, albacore.....	0	0	0	0	0	0	16088	67333	136045	28507	7291	0	255264
Wolf-eel.....	0	11	14	70	70	20	6	6	2	0	0	19	218
Wrymouth.....	0	0	0	0	0	0	2	3	0	0	0	0	5
CRUSTACEANS:													
Crab, box.....	5	0	0	0	0	0	12	7	76	0	0	8	108
Crab, Dungeness, Bay..	0	0	0	3	0	0	0	0	1065	962	14	0	2044
Crab, Dungeness, Oc...	743425	261079	121118	110300	66968	18177	19918	3763	0	0	0	1914471	3259219
Crab, rock.....	763	810	902	215	549	127	203	104	79	20	125	136	4033
Crab, Tanner.....	0	0	0	0	0	0	4	12	0	0	0	0	16
Shrimp, pink.....	0	0	0	1237738	1363188	659241	366654	1114461	1012322	762836	0	0	6716440
MOLLUSKS:													
Clams, gaper.....	30	413	0	0	0	0	0	0	0	70	273	336	1122
Clams, softshell.....	0	0	0	0	50	0	0	0	0	0	0	0	50
Mussels, ocean.....	0	560	0	0	0	0	0	0	0	6	0	0	506
Octopus.....	222	47	110	138	64	32	255	208	128	23	6	114	1347

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

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Squid.....	0	0	0	0	7679	0	0	0	3	0	0	0	7682
OTHER INVERTEBRATES:													
Sea urchins, red.....	0	0	0	0	0	0	22360	0	527	4376	1518	2367	31148
TOTAL	1519952	1275934	684897	1914418	2352285	1943541	1984646	2021523	1807387	1286922	162418	2107396	18981319

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

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

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Lingcod.....	0	0	0	0	0	0	15	67	153	1	0	0	236
Rockfish, widow.....	0	0	0	0	0	0	0	46	40	0	0	0	86
Rockfish, yellowtail..	0	0	0	0	0	0	0	0	48	0	0	0	48
Rockfish, other spp...	0	0	0	0	28	18	44	128	510	172	0	0	900
Sablefish.....	0	24536	14323	73291	96795	32499	45037	0	0	0	0	0	286631
Salmon, chinock.....	0	0	0	0	21816	34667	213611	11693	1993	2274	0	0	286094
Salmon, cono.....	0	0	0	0	0	0	67188	3299	0	0	0	0	90487
Salmon, pink.....	0	0	0	0	0	7	29	2	0	0	0	0	38
Shad, American.....	0	0	0	0	1405	8383	174	0	0	0	0	0	9962
Tuna, albacore.....	0	0	0	0	0	0	2016	1982	561	0	0	0	4559
CRUSTACEANS:													
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	4367	2013	179	0	6559
Crab, Dungeness, Oc..	76445	34825	24162	22099	15646	7616	14574	5528	0	0	0	117726	318621
Shrimp, ghost.....	0	0	0	0	5	315	28	0	0	15	0	0	363
MOLLUSKS:													
Clams, softshell.....	0	0	0	68	0	0	158	45	0	0	0	0	271
Mussels, sea.....	0	0	97	53	151	60	68	0	0	0	0	0	429
TOTAL	76445	59461	38582	95511	135846	83565	362992	22790	7672	4495	179	117726	1005284

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

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

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

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
MOLLUSKS:													
Clams, cockle.....	53	0	0	0	0	0	0	0	0	0	0	0	53
Mussels, ocean.....	1179	206	1101	3220	1990	2095	946	715	340	54	688	1125	13559
TOTAL	129657	60034	31879	48247	371489	176449	534833	168392	40862	59618	3404	403801	2028665

TABLE 56. ESTIMATED VALUE (1), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT CHARLESTON, 1989.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH.													
Cabezon.....	0	0	0	51	100	0	0	0	5	0	0	3	159
Cod, Pacific.....	689	43	221	7	280	1065	416	175	315	170	9	169	3559
Flounder, arrowtooth..	693	762	507	511	1118	1580	2551	1720	2402	558	1223	1130	14755
Flounder, starry.....	0	102	7	73	8	947	2185	1256	456	77	0	870	5981
Grenadier.....	0	0	0	1276	0	0	0	152	1536	852	246	0	4064
Hake, Pac. (Whiting)..	0	0	0	0	0	0	0	0	0	0	97	0	97
Halibut, Pacific.....	0	0	0	0	0	33354	0	0	0	0	0	0	33354
Lingcod.....	3704	13088	8690	11742	16423	18601	20934	14011	34871	18495	3085	6792	170436
Mackerel.....	0	0	0	0	0	15	13	1	0	0	0	0	29
Pollock, walleye.....	0	5	0	0	0	0	0	0	0	0	0	0	5
Pac. Oc. Perch.....	2796	3380	842	2046	3814	4265	3914	499	343	544	0	0	22443
Hominal POP.....	12390	10568	8059	12740	10951	14087	12533	14189	13573	12721	7427	10346	139583
Rockfish, widow.....	137946	42986	17963	1578	10636	17437	23609	18533	47745	20083	1877	2665	343058
Rockfish, yellowtail..	32435	18906	6792	13086	12016	3762	4865	4877	18683	21786	1051	255	138514
Rkfish, Sebastolobus...	42353	81390	68391	38234	34537	20773	102156	70076	53671	54263	74431	114342	754619
Rockfish, other spp...	63996	50058	22875	39698	44851	49347	42241	29085	54506	40439	19867	35550	492513
Sablefish.....	122174	83266	83785	143949	184572	157504	186945	50960	49981	44158	37493	57903	1202690
Salmon, chinook.....	0	0	0	0	1099625	643895	396091	601471	120010	115283	7582	0	2983957
Salmon, chum.....	0	0	0	0	0	0	5	0	0	0	0	0	5
Salmon, coho.....	0	0	0	0	0	0	244302	116503	0	0	0	0	360605
Salmon, pink.....	0	0	0	0	636	1241	637	400	0	0	0	0	2914
Sanddab, Pacific.....	176	1029	486	106	332	615	74	106	305	24	0	0	3253
Shark, sixgill.....	0	6	0	0	0	0	0	0	0	0	0	0	6
Shark, soupfin.....	0	104	0	0	0	0	0	0	0	0	0	0	104
Skates and rays.....	0	70	0	0	0	0	0	0	0	0	0	0	70
Sole, curlfin (turbot)	0	61	19	69	0	327	428	27	0	0	0	0	931
Sole, Dover.....	303992	218851	177883	177593	142911	106390	104189	132629	146462	140210	109597	187016	1947723
Sole, English.....	9631	14601	6920	11840	8434	10727	10559	11815	13262	6452	3866	5275	113382
Sole, patrale.....	213934	63484	12785	8281	3292	3628	7760	14792	21043	12004	26230	121091	508324

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

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Sole, rex.....	3217	2371	2625	761	1561	1413	1924	0	78	412	475	1677	17034
Sole, rock.....	0	0	0	36	0	1268	515	90	0	0	0	0	1909
Sole, sand.....	0	300	93	498	183	7413	23215	14437	4044	1906	0	0	52089
Sturgeon, green.....	0	0	0	0	0	158	163	106	99	0	0	0	526
Surfperch.....	0	0	0	31	0	0	0	0	0	0	0	0	31
Tuna, albacore.....	0	0	0	0	0	0	1948	139314	19480	13262	0	0	174004
Wolf-eel.....	1	0	0	0	72	26	71	0	0	0	0	0	170
CRUSTACEANS:													
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	11950	18505	20626	671	51752
Crab, Dungeness, Oc...	167615	105398	45062	36243	49638	12723	28474	26866	0	0	0	1239622	1711666
Shrimp, ghost.....	365	333	1540	2280	2327	2621	3117	2115	1656	1298	1329	621	19602
Shrimp, mud.....	0	0	90	0	0	0	0	0	0	0	0	0	90
Shrimp, pink.....	0	0	0	962244	933564	702955	292450	685919	703075	517345	0	0	4797552
MOLLUSKS:													
Clams, butter.....	0	95	146	147	132	41	0	0	0	215	75	53	904
Clams, cockle.....	0	0	6	53	195	2	0	0	0	0	0	0	256
Clams, gaper.....	0	0	0	0	0	0	0	66	9	118	63	322	578
Clams, littleneck.....	0	0	0	0	0	0	0	0	0	0	3	2	5
Clams, softshell.....	0	0	0	14	45	0	43	0	0	0	0	0	102
Mussels, ocean.....	0	47	73	37	1	5	68	0	0	0	0	0	231
Octopus.....	14	47	0	13	7	22	17	0	0	0	0	32	152
OTHER INVERTEBRATES:													
Sea urchins, red.....	0	14538	12835	0	0	0	0	0	0	0	0	0	27373
Bloodworms.....	0	0	0	0	11	0	0	0	0	0	0	0	11
Worms, tube.....	0	0	24	0	355	310	94	0	0	0	0	0	773
TOTAL	1118121	726389	478719	1465264	2562627	1818517	1518496	1952211	1319560	1041180	316652	1786407	16104143

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Halibut, Pacific.....	0	0	0	0	0	5364	0	0	0	0	0	0	5364
Lingcod.....	0	0	0	0	4	99	136	38	46	4	41	41	409
Rkfsh, Sebastolobus...	0	251	0	0	0	0	0	0	0	0	0	0	251
Rockfish, other spp....	0	19c	0	0	843	82	1366	1953	606	224	68	0	5343
Sablefish.....	0	11632	0	16229	23715	10170	16065	0	0	0	0	0	77811
Salmon, chinook.....	0	0	0	0	47145	10747	64325	155309	7727	8454	422	0	294129
Salmon, coho.....	0	0	0	0	0	0	44845	24010	0	0	0	0	68855
Salmon, pink.....	0	0	0	0	31	73	44	78	4	0	0	0	230
Tuna, albacore.....	0	0	0	0	0	0	0	1502	9759	0	0	0	11261
CRUSTACEANS:													
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	0	126	95	0	221
Crab, Dungeness, Oc...	638	383	587	7985	646	408	262	301	0	0	0	1711	12921
MOLLUSKS:													
Clams, softshell.....	0	0	0	16	0	0	0	0	0	0	0	0	16
Mussels, ocean.....	0	0	0	400	600	0	150	0	0	1440	0	0	2590
TOTAL	638	12462	587	24630	72969	26943	127193	193191	18142	10248	626	1752	479401

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	43	61	0	0	0	3	0	4	0	0	0	0	111
Flounder, arrowtooth..	0	0	0	0	0	2	0	0	0	0	0	0	2
Halibut, Pacific.....	0	0	0	0	0	21268	0	0	0	0	0	0	21268
Lingcod.....	302	1734	2058	3593	1410	1784	1714	4942	5603	5633	1122	170	30065
Rockfish, other spp...	352	2933	1801	5499	4550	6212	18068	10994	31646	10481	1396	2605	96487
Sablefish.....	0	0	0	977	0	22614	1471	0	0	0	0	0	25062
Salmon, chinook.....	0	0	0	0	54153	4127	49473	263813	35067	97022	137235	0	640890
Salmon, coho.....	0	0	0	0	0	208	31600	32512	0	0	0	0	64320
Salmon, pink.....	0	0	0	0	48	31	352	97	0	0	0	0	528
Shark, sixgill.....	0	0	0	0	0	0	0	0	0	0	26	0	26
Wolf-eel.....	0	1	0	0	0	0	0	0	0	0	0	0	1
CRUSTACEANS:													
Crab, Dungeness, Oc...	18288	31081	27698	18614	25720	7550	6185	4788	0	0	0	349771	489695
Shrimp, pink.....	0	0	0	16434	19323	22444	23364	18308	13214	0	0	0	113087
MOLLUSKS:													
Mussels, ocean.....	0	0	0	0	0	0	0	100	200	0	240	300	840
Octopus.....	0	0	0	0	0	0	0	0	0	0	0	646	646
Scallops, rock.....	0	6	0	4	0	0	0	0	0	0	0	0	10
OTHER INVERTEBRATES:													
Sea urchins, red.....	86761	126464	73369	263457	317407	198684	169017	165494	193310	142457	125948	246882	2109250
TOTAL	105746	162280	104926	308578	422561	284927	301244	501052	279040	255593	265967	600374	3592288

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

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

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

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	0	9	0	0	0	0	0	0	0	0	0	0	9
Cod, Pacific.....	28	0	0	0	0	6	0	0	0	3	2	0	39
Flounder, arrowtooth..	114	218	0	8	0	6	97	55	119	195	174	0	936
Flounder, starry.....	248	160	34	0	0	0	47	0	0	131	11	0	571
Grenadier.....	38	174	1160	755	1226	1758	2119	2764	1557	901	1172	232	13856
Halibut, Pacific.....	0	0	0	0	0	422	0	0	0	0	0	0	422
Lingcod.....	810	3046	353	1342	9223	10811	4302	3407	3483	5213	5131	1820	48941
Nominal POP.....	646	4409	1304	1511	1145	1508	1044	3188	2189	1302	1709	600	20555
Rockfish, widow.....	28618	34695	25951	23434	26978	21190	16129	24880	30913	5907	1081	1321	241097
Rockfish, yellowtail..	0	225	0	1026	11377	12266	1831	4997	0	2272	2664	2969	39627
Rkfish, Sebastolobus...	42370	35611	51840	71968	66971	52565	57244	79922	39786	41179	85501	45565	670522
Rockfish, other spp...	2460	3435	1301	2428	13952	8594	4921	6588	4592	6593	5201	3203	63268
Sablefish.....	16328	15618	32218	35066	24817	24053	33141	36037	35447	27290	28562	16292	324869
Salmon, chinook.....	0	0	0	0	127977	67335	2343	56314	119758	543	641	0	374911
Salmon, coho.....	0	0	0	0	0	8052	384	19	0	0	0	0	8455
Salmon, pink.....	0	0	0	0	0	32	4	0	0	0	0	0	36
Sanddab, Pacific.....	5	74	182	23	7	4	172	65	0	168	62	9	771
Shark, soupfin.....	0	57	0	0	90	32	0	0	0	64	263	29	535
Smelt.....	0	0	0	0	131	641	949	203	0	0	0	0	1924
Smelt, whitebait.....	0	0	0	0	368	30	1053	0	0	0	0	0	1451
Sole, butter.....	0	0	0	0	0	0	0	0	0	293	0	0	293
Sole, Dover.....	26154	22816	28596	21644	20891	18677	19070	22243	29576	38694	26435	13903	288699
Sole, English.....	2585	1939	1294	74	250	154	359	450	1577	3843	282	262	13089
Sole, petrale.....	21670	14260	493	152	749	688	829	465	650	2683	3354	7991	53984
Sole, rex.....	2185	2578	522	1491	600	1172	464	1440	1922	1424	574	713	15345
Sole, rock.....	0	0	0	0	0	0	0	0	5	0	0	0	5
Sole, sand.....	5521	1853	1260	0	0	0	0	0	0	3525	0	0	12099
Sturgeon, green.....	0	27	0	0	0	0	0	0	0	0	0	0	27
Surfperch.....	0	278	684	715	0	0	144	38	0	144	170	12	2185

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

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Tuna, albacore.....	0	0	0	0	0	0	0	7353	9081	2508	0	0	18942
CRUSTACEANS:													
Crab, Dungeness, Oc...	196328	126295	66551	34447	49790	9046	1961	439	0	0	0	1103446	1588303
Shrimp, pink.....	0	0	0	272787	253592	195084	140567	328576	284631	223481	0	0	1698718
MOLLUSKS:													
Octopus.....	558	427	89	310	93	211	55	60	24	75	107	1675	3984
OTHER INVERTEBRATES:													
Sea urchins, red.....	0	0	0	0	0	0	0	0	0	19022	0	0	19022
TOTAL	346666	268144	213832	469181	610427	434337	289239	579513	565310	387453	163096	1200242	5527440

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

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

¹ May include small adults.

Table 62. Pounds of salmon harvest by Oregon private salmon hatcheries 1989¹

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

¹ Harvest report from March through February of the following year.

² May include small adults.

TABLE 63. MONTHLY LANDINGS (POUNDS ROUND) OF CARP, CRAYFISH, FRESHWATER MUSSELS, PACIFIC LAMPREY AND BRINE SHRIMP HARVESTED IN OREGON, 1989.

COUNTY/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
BAKER													
Crayfish	0	0	0	300	663	6342	10141	6187	6646	8079	0	0	38358
CLACKAMAS													
Crayfish	0	0	0	0	0	661	4013	2397	2032	216	0	0	9319
Lamprey, Pacific	0	0	0	0	0	5984	2382	0	0	0	0	0	8366
TOTAL	0	0	0	0	0	6645	6395	2397	2032	216	0	0	17685
CLATSOP													
Crayfish	0	0	0	0	0	4846	4993	2841	1743	5221	0	0	19644
COLUMBIA													
Crayfish	0	0	0	0	134	683	2320	1768	2338	72	0	0	7315
DESCHUTES													
Crayfish	0	0	0	0	0	297	548	1223	696	407	0	0	3171
GRANT													
Crayfish	0	0	0	0	0	0	0	212	0	0	0	0	212
JEFFERSON													
Crayfish	0	0	0	4453	9790	14799	13373	11558	9635	1213	0	0	64821
KLAMATH													
Crayfish	0	0	0	0	0	0	565	1607	146	0	0	0	2318
Shrimp, Brine	0	0	0	0	6200	0	0	0	0	0	0	0	6200
TOTAL	0	0	0	0	6200	0	565	1607	146	0	0	0	8518
LAKE													
Shrimp, Brine	0	0	0	0	0	9300	12300	2000	0	0	0	0	23600
LINCOLN													
Crayfish	0	0	0	0	0	97	0	208	347	0	0	0	652

TABLE 63. MONTHLY LANDINGS (POUNDS ROUND) OF CARP, CRAYFISH, FRESHWATER MUSSELS, PACIFIC LAMPREY AND BRINE SHRIMP HARVESTED IN OREGON, 1989.

COUNTY/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
MARION													
Crayfish	0	0	0	0	0	0	0	29	0	0	0	0	29
MULTNOMAH													
Crayfish	0	0	0	229	628	9125	16470	4905	4621	4540	0	0	40518
POLK													
Crayfish	0	0	0	0	0	0	0	365	1249	1100	0	0	2714
WASCO													
Mussels, Freshwater	0	0	0	0	0	0	0	0	3773	0	0	0	3773
WASHINGTON													
Crayfish	0	0	0	0	0	3663	7673	11402	7670	0	0	0	30408
YAMHILL													
Crayfish	0	0	0	0	2957	8261	4370	1721	986	216	0	0	16511
TOTAL													
Carp	0	0	0	0	0	0	0	0	0	0	0	0	0
Crayfish	0	0	0	4982	14172	48774	64466	46423	38109	21064	0	0	237990
Mussels, Freshwater	0	0	0	0	0	0	0	0	3773	0	0	0	3773
Lamprey, Pacific	0	0	0	0	0	5984	2382	0	0	0	0	0	8366
Shrimp, Brine	0	0	0	0	6200	9300	12300	2000	0	0	0	0	29800

Table 64. Oregon oyster production (gallons), 1980-89.

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

SOURCE: Oregon Department of Agriculture

APPENDIX

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

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

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

Although the commercial fishing industry provides only about one percent of total Oregon earned income, it is extremely important to the coastal economy, providing about 14 percent of coastal earned income in 1989. Table 1 is a summary of the personal income contribution of the industry to coastal areas and the state.

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

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

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

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

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

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

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