

1990

POUNDS & VALUES
OF FISH AND SHELLFISH
LANDED IN OREGON



Photograph courtesy of Oregon Historical Society

1990

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

by

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FOREWORD

The statistics presented in this publication provide information on the amount and value of commercial food fish landings in the State of Oregon in 1990. 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 county 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 in Table 1. Fish dealers are required to record each species landed; however, this is not always possible due to the difficulty identifying certain species. 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 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 combined and reported by their scientific genus name Sebastolobus. Prior to 1984 they were included with miscellaneous rockfish.

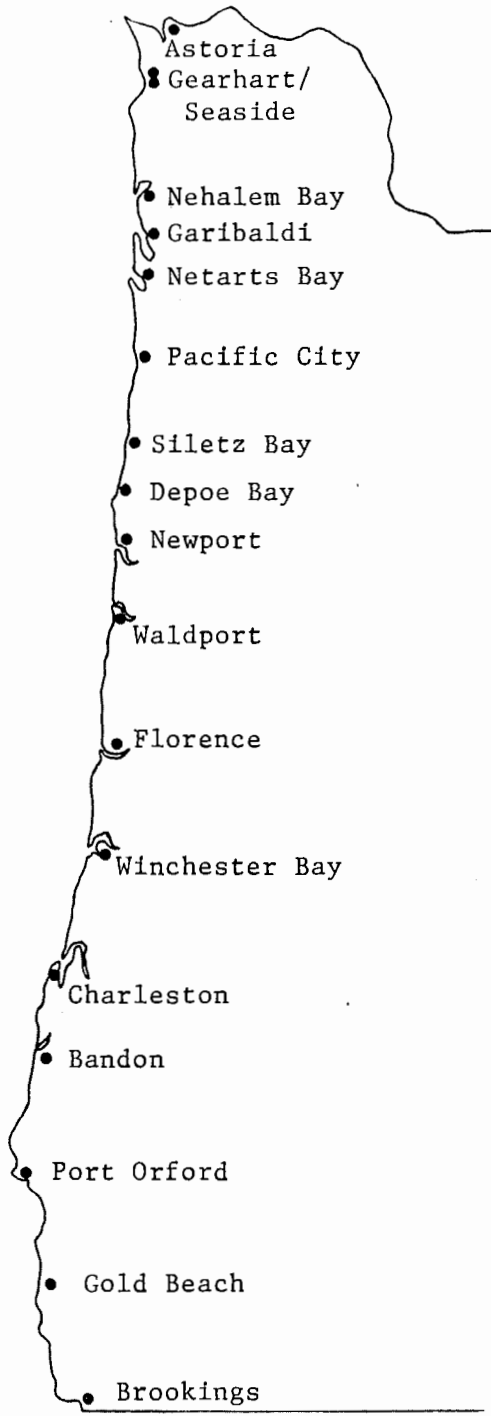


Figure 1. Oregon coastal ports

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, 1981-90) 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>Sebastes 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 pallasi</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	Wrymouth, giant.....	<i>Delolepis gigantea</i>
	<i>Carangidae</i> and <i>Scombridae</i>		
Opah.....	<i>Lampris guttatus</i>	CRUSTACEANS	
Pollock, walleye.....	<i>Theragra chalcogramma</i>	Barnacle, gooseneck.....	<i>Mitella polymerus</i>
Prickleback, monkeyface.....	<i>Cebidichthys violaceus</i>	Crab	
Ratfish.....	<i>Hydrolagus colliei</i>	Box.....	<i>Lopholithodes foraminatus</i>
Rockfish		Dungeness.....	<i>Cancer magister</i>
Miscellaneous rockfish.....	<i>Sebastes</i> spp.	Hermit.....	<i>Paguridea</i> spp.
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>
Blue.....	<i>Prionace glauca</i>	Cockle.....	<i>Clinocardium nuttallii</i>
Sixgill.....	<i>Haxanchnus griseus</i>	Gaper.....	<i>Tresus capax</i>
Soupfin.....	<i>Galeorhinus zyopterus</i>	Littleneck.....	<i>Venerupis</i> spp.
Spiny dogfish.....	<i>Squalus acanthias</i>	Razor.....	<i>Siliqua patula</i>
Thresher.....	<i>Alopias vulpinus</i>	Softshell.....	<i>Mya arenaria</i>
Skates and Rays.....	Members of the family	Mussel, freshwater.....	Members of the family
	<i>Rajidae</i> , <i>Rhinobatidae</i>		<i>Margaritiferidae</i> & <i>Unionidae</i>
	and <i>Myliobatidae</i>	Mussel, ocean.....	<i>Mytilus</i> spp.
Smelt.....	Members of the family <i>Osmeridae</i>	Octopus.....	<i>Polypus</i> spp.
Smelt, whitebait.....	<i>Allosmerus elongatus</i>	Oyster	
Sole		Kumamoto.....	<i>Crassostrea gigas</i> var.
Butter.....	<i>Isopsetta isolepis</i>	Native.....	<i>Ostrea lurida</i>
Curlfin.....	<i>Pleuronichthys decurrens</i>	Pacific.....	<i>Crassostrea gigas</i>
Dover.....	<i>Microstomus pacificus</i>	Scallop, weathervane.....	<i>Patinoplectin caurinus</i>
English.....	<i>Parophrys vetulus</i>	Squid.....	<i>Loligo opalescens</i>
Flathead.....	<i>Hippoglossoides elassodon</i>		
Petrale.....	<i>Eopsetta jordani</i>	OTHER INVERTEBRATES	
Rex.....	<i>Glyptocephalus zachirus</i>	Bloodworm.....	<i>Euzonus</i> spp.
Rock.....	<i>Lepidopsetta bilineata</i>	Urchin, red sea.....	<i>Strongylocentrotus fanciscanus</i>
Sand.....	<i>Psettichthys melanostictus</i>	Worms, tube.....	<i>Serpula</i> , spp.
Slender.....	<i>Lyopsetta exilis</i>		
Squawfish, Northern.....	<i>Ptychocheilus oregonensis</i>		

Table 2. Type and number of commercial fishing licenses issued, 1981-90

Type	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Albacore tuna landing.....	223	87	105	81	48	51	50	76	55	46
Bait fishing.....	112	91	96	97	106	122	111	127	113	115
Boat.....	4,575	4,231	3,966	2,078	2,982	3,072	3,109	3,529	3,508	3,388
Individual fishing.....	8,008	7,449	6,853	3,946	5,619	6,330	7,025	7,423	7,345	6,226
Single Delivery.....	196	109	85	113	165	406	678	136	108	77
Gillnet permit.....	534	511	475	436	373	370	370	356	356	355
Scallop permit.....	196	164	144	134	113	101	103	104	105	100
Shrimp permit.....	295	268	234	209	180	173	181	220	211	208
Troll permit.....	3,926	3,646	3,439	3,203	2,993	2,739	2,626	2,597	2,574	2,528
Bait dealers:										
Reporting.....	77	45	59	67	66	71	62	72	71	55
Non-reporting.....	1/	8	17	27	34	33	27	27	30	29
Buyer.....	121	119	124	78	94	122	150	179	159	141
Canner, fish.....	8	8	7	7	8	6	7	1	7	8
Canner, shellfish.....	3	3	4	3	2	2	3	4	2	2
Limited fish seller.....	--	--	--	--	2	31	37	57	77	44
Wholesale fish dealer:										
Reporting.....	229	217	221	180	181	168	168	171	188	170
Non-reporting.....	1/	12	18	13	14	21	33	30	36	31
Private hatchery.....	1/	7	8	8	9	7	6	6	6	4
Boat, lost license.....	--	40	28	11	18	23	30	31	35	29
Indiv. fishing, lost license..	10	55	38	11	14	18	26	67	50	47
Permit fisheries, lost permit.	NA	NA	NA	NA	NA	NA	37	28	29	22
Special permit.....	99	115	103	107	92	73	74	87	59	34
TOTAL	18,612	17,185	16,024	10,809	13,113	13,639	14,913	15,338	15,124	13,659

1/ Included with reporting

NA - Not Available

TABLE 3A. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) IN OREGON, 1981-1990.

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
FISH:										
Anchovy, northern.....	0	200	0	0	31	0	0	26	30	0
Bonita.....	0	0	1462	0	0	0	0	0	0	0
Cabezon.....	299	142	702	2512	5681	10963	14051	24987	14765	11383
Carp.....	0	0	50	0	0	0	11184	0	0	0
Squawfish, Northern...	0	0	0	0	0	0	0	0	42	0
Cod, Pacific.....	116947	260319	196644	175782	85401	67789	1468747	2280678	1720551	510279
Flounder, arrowtooth..	1311268	1617209	1191733	919403	1539458	1107314	1631086	1414080	2505977	4000879
Flounder, starry.....	889441	481812	432560	236979	789941	215869	218867	345650	443256	237846
Greenling.....	0	0	0	0	0	0	0	177	169	7
Grenadier.....	0	0	798	0	0	0	462	46854	112981	191831
Hagfish.....	0	0	0	0	0	0	0	25782	344187	167453
Halibut, Pacific.....	150396	234730	579560	1055044	812822	1313774	916022	582020	916024	622233
Herring, Pacific.....	148410	144970	145915	177452	163566	220300	493788	355890	546391	475634
Lamprey.....	4666	39169	4482	3391	6381	4740	5633	10896	8366	14203
Lingcod.....	2307361	3213736	3830684	2344785	2320901	1444321	1589771	2222190	2590810	1927614
Mackeral.....	26	83	18253	6724	13	4	3229	1403	10443	22679
Opah.....	0	0	448	0	0	89	1727	160	0	0
Pollock, walleye.....	0	0	348	880	310	1523	0	0	47	31
Pricklebck, monkeyface	0	0	302	250	71	487	0	0	0	0
Ratfish.....	0	0	0	0	0	0	0	28	110	24
Pac. Oc. Perch.....	4350997 1/	5508130 1/	5192175 1/	1576824	1554767	1385049	1048384	1403168	1557365	1084209
Nominal POP.....	2/	2/	2/	1472712	2378182	2093582	2046590	2980699	3046384	2991281
Rockfish, widow.....	31768970	19198987	3/	11635817	9535857	9435395	13963484	12009023	15236547	12226558
Rockfish, yellowtail..	3/	3/	3/	3/	2985880	3667900	3700306	4960998	4076729	4011601
Rkfish, Sebastolobus...	3/	3/	3/	1785270	2361759	1399250	1480307	2209850	5564151	9980977
Rockfish, other spp...	18321418	22031780	30291426	12231908	10033146	7912703	10037674	9838085	11086159	7134485
Sablefish.....	5166329	11220816	10234762	10666025	11624342	10261789	11551670	8999796	8704848	8230977
Salmon, chinook.....	2439675	4365148	1287328	1759165	3856605	6477211	11482797	11741177	7610539	4202224
Salmon, chum.....	11118	13964	1100	10978	3560	8287	6821	14697	4164	3909

TABLE 3A. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) IN OREGON, 1981-1990. (CONT.)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Salmon, coho.....	4156442	4204763	1300319	1183454	1822156	6936485	3058254	5697737	3836619	1041908
Salmon, pink.....	372605	0	269	0	297429	12	100463	12	20295	0
Salmon, sockeye.....	0	472	2998	82495	143251	14311	124037	65036	59	0
Sanddab, Pacific.....	293589	526000	531290	614479	395496	321095	468094	241914	162923	429616
Sculpin.....	0	0	0	0	0	0	0	0	2	0
Irish Lord, Brown.....	0	0	0	0	0	0	0	0	2	1
Irish Lord, Red.....	0	0	0	0	0	0	0	6	2	35
Sculpin, Buffalo.....	0	0	0	0	0	0	0	21	10	8
Shad, American.....	117477	435351	359719	198414	140143	343154	365482	393621	194516	497513
Shark, blue.....	0	0	0	0	0	0	0	0	0	56
Shark, sixgill.....	0	0	0	0	0	0	0	0	135	118
Shark, soupfin.....	3585	11081	13905	7784	9087	7161	17511	3029	3264	3709
Shark, spiny dogfish..	10608	2090	2581	873	290	363	225	1110	698	15611
Shark, thresher.....	0	0	0	0	2092	935100	101664	88957	30	655
Shark, other.....	1293	8213	7100	696	1616	1333	3645	67	159	92
Skates and rays.....	85861	63889	159640	59495	11385	22767	21421	4571	8319	2112
Smelt.....	24013	55346	40343	30551	673322	36636	48725	58971	29654	1108
Smelt, Whitebait.....	0	0	0	0	0	0	0	0	4512	0
Sole, butter.....	22463	19178	12075	2252	707	1034	10617	691	2465	0
Sole, curlfin (turbot)	5105	9793	9489	6908	4518	4752	9685	6328	5420	574
Sole, Dover.....	11672995	17951407	18698513	13472731	12585063	10623952	13353184	16925202	19638358	16553757
Sole, English.....	1600095	2187335	2014645	993103	1031237	1221130	1310569	1281272	1527272	1122209
Sole, flathead.....	11111	6524	17105	11854	32132	5556	1311	20708	7252	17111
Sole, petrale.....	1948665	3323843	2435788	1517840	1273559	1568374	1884519	1989500	1901739	1639907
Sole, rex.....	1346409	1865611	1426686	1210425	874431	629946	632021	734799	623183	500134
Sole, rock.....	19871	66543	9278	4630	1424	12862	2498	11383	5555	5018
Sole, sand.....	735458	856930	696583	481734	485018	531913	500462	349569	487093	467730
Sole, slender.....	0	0	0	0	5	0	0	0	0	0
Steelhead.....	61060	53564	80487	562348	454332	360654	319411	267345	252099	163502
Sturgeon, green.....	9990	21219	18970	54870	31431	87823	67553	58028	10673	9528

TABLE 3A. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) IN OREGON, 1981-1990. (CONT.)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Sturgeon, white.....	280123	236691	296648	401621	306687	485588	428330	231041	200472	184308
Sucker, Largescale....	0	0	0	0	0	0	0	0	28	0
Sunfish, ocean.....	0	0	244	70	0	0	0	50	0	0
Surfperch.....	167	342	2421	4920	3314	4369	2539	5551	3710	4953
Tomcod, Pacific.....	0	0	46	0	0	0	0	69	0	0
Tuna, albacore.....	7726890	1913063	3410429	1630763	1524601	2461004	2288045	3967120	1079657	2079312
Tuna, other.....	0	580	177	185	0	364	13	154	0	0
Walleye.....	0	0	0	0	0	0	0	0	7065	1268
Whiting, Pac. (Hake)..	360251	3316	142536	745561	1950069	926681	402713	543196	195914	5058341
Wolf-eel.....	1435	2348	6747	5067	6947	7064	9276	4857	4917	2994
Wrymouth.....	0	0	0	0	0	0	254	560	121	142
Miscellaneous.....4/	335370	1219	3	271	223	1421	3947	227	0	0
CRUSTACEANS:										
Barnacle, Gooseneck...	0	0	0	0	0	0	0	30	561	12
Crab, box.....	0	502	16207	271881	93431	3060	24	0	412	8586
Crab, Dungeness.....	6984025	7035245	5350560	5013455	7422901	4660672	5990869	9414002	11675901	9509817
Crab, Hermit.....	0	0	0	0	0	0	0	0	0	21
Crab, mole.....	0	0	0	0	0	0	0	15	8	0
Crab, rock.....	7	0	0	1155	1552	1806	5321	7772	4037	4571
Crab, Tanner.....	0	65	1338	0	48	0	121	0	16	0
Crayfish.....	83904	155231	125519	104745	196241	217829	336279	299013	237990	169909
Shrimp, brine.....	3935	7100	12402	16500	20100	22400	23100	26600	29800	39300
Shrimp, ghost.....	55499	68749	69905	115699	110134	75368	52470	70815	68040	72778
Shrimp, mud.....	0	0	0	0	4663	53232	42273	40277	40995	51911
Shrimp, pink.....	25923589	18461988	6547073	4843571	14855247	33883577	44589472	41846202	49128914	31882770
Shrimp, spot.....	0	0	0	0	0	0	0	0	74	0
Water flea (Daphnia)..	0	0	0	0	0	0	0	0	3000	0
MOLLUSKS:										
Clams, butter.....	2409	3669	4035	4842	1646	2862	3046	2492	3806	4604

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TABLE 3A. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) IN OREGON, 1981-1990. (CONT.)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Clams, cockle.....	4580	10517	2579	17919	29412	32697	20202	30068	44344	45607
Clams, gaper.....	62142	104290	95091	50573	20121	16519	6368	3656	5164	10391
Clams, littleneck....	4892	13265	34444	46874	46266	27573	14140	6971	6032	7521
Clams, softshell.....	684	248	36	366	1809	3558	2527	1596	1136	4633
Clams, razor.....	22516	26528	100	5803	58253	2906	29197	33910	32177	13474
Mussels, ocean.....	17866	18372	28267	36198	40168	37494	48903	50656	65048	44445
Mussels, bay.....	0	0	2485	3856	0	2378	0	0	0	0
Mussels, freshwater...	0	0	0	0	0	0	3407	2564	3773	9946
Octopus.....	14082	18597	16780	12970	7682	9540	18771	46903	15318	17022
Scallops, rock.....	0	0	0	0	0	0	0	0	220	24
Scallops, weathervane	16853845	1487941	2648965	3329234	819030	105523	13590	29226	0	1781
Squid.....	225	113138	297410	946725	1751773	26371	29	5	96025	0
OTHER INVERTEBRATES:										
Sea urchins.....	0	0	0	0	0	55820	0	0	0	0
Sea urchins, red.....	0	0	0	0	0	0	202799	1970963	7842658	9320868
Bloodworms.....	0	0	0	0	0	0	0	0	28	0
Worms, tube.....	0	0	0	1333	2069	0	0	1570	1938	0
	148224452	129683351	100360962	84170994	99603185	113822428	138611976	148306322	165622642	139071638

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

2/ INCLUDED IN PACIFIC OCEAN PERCH.

3/ INCLUDED IN ROCKFISH, OTHER SPP.

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

TABLE 3B. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF COMMERCIAL FISH AND SHELLFISH LANDINGS IN OREGON, 1981-1990.

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
FISH:										
Anchovy, northern.....	0	50	0	0	34	0	0	13	15	0
Bonita.....	0	0	504	0	0	0	0	0	0	0
Cabazon.....	76	30	183	802	1274	2271	3038	7110	4354	4735
Carp.....	0	0	15	0	0	0	1118	0	0	0
Squawfish, Northern...	0	0	0	0	0	0	0	0	2	0
Cod, Pacific.....	24857	62376	48830	45198	21740	18242	481583	625590	448314	130825
Flounder, arrowtooth..	119956	164932	120601	91980	154469	113258	238787	185739	242358	413558
Flounder, starry.....	198705	120726	117274	66428	224439	62831	74829	107107	133213	69209
Greenling.....	0	0	0	0	0	0	0	121	99	4
Grenadier.....	0	0	160	0	0	0	60	7331	17920	21535
Hagfish.....	0	0	0	0	0	0	0	9024	103256	49434
Halibut, Pacific.....	160251	255599	630308	802395	799284	1869505	1017882	873846	1302466	915808
Herring, Pacific.....	57211	118262	78077	44299	243176	94399	236438	234041	267457	261308
Lamprey.....	2008	26681	582	856	2233	1659	5633	1634	2950	3562
Lingcod.....	512504	767717	953314	585556	604400	443023	602693	799550	871307	652219
Mackeral.....	2	21	7796	671	1	1	535	365	1174	3694
Opah.....	0	0	90	0	0	36	777	80	0	0
Pollock, walleye.....	0	0	35	221	62	61	0	0	5	3
Pricklebck, monkeyface	0	0	50	45	13	104	0	0	0	0
Ratfish.....	0	0	0	0	0	0	0	3	11	7
Pac. Oc. Perch.....	696320 1/	1032197 1/	1110487 1/	365189	393053	384223	348283	409526	432166	293148
Nominal POP.....	2/	2/	2/	306783	553919	549627	628299	804019	737407	763234
Rockfish, widow.....	4062242	3059712	3/	2669442	2370142	2572719	4479950	3385946	3923316	3162354
Rockfish, yellowtail..	3/	3/	3/	3/	757761	1032689	1195564	1398018	1099739	1103934
Rkfish, Sebastolobus...	3/	3/	3/	423301	590471	395154	482735	780096	2050440	3867991
Rockfish, other spp...	2935590	4165621	6040081	2887349	2595437	2324962	3472619	2899417	3134719	2177787
Sablefish.....	1074003	2465880	2213240	2213122	3334997	3600071	5084185	4349831	3834542	3587209
Salmon, chinook.....	4829927	7608117	1883384	3055784	6739449	8264478	21496898	26842749	10659401	8067575
Salmon, chum.....	6869	7250	581	5770	1278	3014	6412	10650	2144	2745

TABLE 3B. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF COMMERCIAL FISH AND SHELLFISH LANDINGS IN OREGON, 1981-1990. (CONT).

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Salmon, coho.....	5909667	4739763	1091541	1384676	1794040	6708735	4911333	11710396	3454954	1381662
Salmon, pink.....	272840	0	174	0	168007	6	69432	10	13111	0
Salmon, sockeye.....	0	702	2021	90866	154038	16447	186607	126280	30	0
Sanddab, Pacific.....	78901	156212	169939	200896	120456	110051	171223	79358	41369	121140
Sculpin.....	0	0	0	0	0	0	0	0	1	0
Irish Lord, Brown.....	0	0	0	0	0	0	0	0	1	1
Irish Lord, Red.....	0	0	0	0	0	0	0	1	1	14
Sculpin, Buffalo.....	0	0	0	0	0	0	0	2	1	1
Shad, American.....	28035	155335	73453	44959	26161	66775	72841	93575	73650	87987
Shark, blue.....	0	0	0	0	0	0	0	0	0	56
Shark, sixgill.....	0	0	0	0	0	0	0	0	74	89
Shark, soupfin.....	1216	4224	6579	4505	4536	5129	12203	2751	3114	2716
Shark, spiny dogfish..	734	171	190	69	29	104	83	191	333	2032
Shark, thresher.....	0	0	0	0	2092	585070	155758	135189	49	541
Shark, other.....	658	4815	3603	530	792	911	2887	39	95	187
Skates and rays.....	6747	15818	33112	10316	2694	5991	6714	1461	2654	638
Smelt.....	2508	7694	10123	8710	97504	8930	12357	12286	6118	874
Smelt, Whitebait.....	0	0	0	0	0	0	0	0	1451	0
Sole, butter.....	4240	4246	2685	470	172	216	2650	173	617	0
Sole, curlfin (turbot)	1962	2988	2889	1929	1480	1635	3220	2232	1907	172
Sole, Dover.....	2568746	4190843	4227393	3193069	3159418	2826414	4183821	5216455	5472600	4531282
Sole, English.....	462755	700883	650712	319919	342424	439679	533197	500736	562838	350404
Sole, flathead.....	3094	2040	5459	3861	10588	1977	494	7946	2755	5134
Sole, petrale.....	1027317	2060523	1697737	1092768	935803	1198068	1552777	1661977	1589975	1358331
Sole, rex.....	403710	600783	466922	401039	291065	225847	248298	285241	227305	159212
Sole, rock.....	6878	22246	2834	1435	389	4455	1061	3022	2112	1510
Sole, sand.....	340389	447093	414482	295969	305618	346481	366779	261004	363872	347112
Sole, slender.....	0	0	0	0	2	0	0	0	0	0
Steelhead.....	74704	59320	62006	590768	212324	199113	351209	382736	136572	132840
Sturgeon, green.....	4222	7881	7478	25092	14946	44021	34320	32296	5444	6831

TABLE 3B. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF COMMERCIAL FISH AND SHELLFISH LANDINGS IN OREGON, 1981-1990. (CONT).

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Sturgeon, white.....	291297	250871	335821	548390	447939	771369	714606	424259	385225	376839
Sucker, Largescale....	0	0	0	0	0	0	0	0	1	0
Sunfish, ocean.....	0	0	49	14	0	0	0	5	0	0
Surfperch.....	93	80	1286	2311	1963	2177	1748	3105	2810	3540
Tomcod, Pacific.....	0	0	9	0	0	0	0	31	0	0
Tuna, albacore.....	6678117	1265387	1881210	884510	814322	919763	1675345	3327289	887241	1669613
Tuna, other.....	0	243	89	184	0	125	9	65	0	0
Walleye.....	0	0	0	0	0	0	0	0	4649	1223
Whiting, Pac. (Hake)..	25139	68	39486	44065	163209	59623	33054	41183	14625	219501
Wolf-eel.....	1435	563	1262	1696	1485	1765	2304	1025	1471	946
Wrymouth.....	0	0	0	0	0	0	95	58	18	19
Miscellaneous.....4/	134	1615	1	130	14	2665	13541	534	0	0
CRUSTACEANS:										
Barnacle, Gooseneck...	0	0	0	0	0	0	0	8	1938	7
Crab, box.....	0	294	10828	153622	46588	1530	10	0	108	5120
Crab, Dungeness.....	6712248	7550695	7934349	7758923	10740671	6588472	8351876	11276973	13564259	14554833
Crab, Hermit.....	0	0	0	0	0	0	0	0	0	11
Crab, mole.....	0	0	0	0	0	0	0	70	8	0
Crab, rock.....	7	0	0	1155	1552	1806	5321	7772	4037	4643
Crab, Tanner.....	0	39	1552	0	17	0	242	0	16	0
Crayfish.....	97858	166362	128710	108999	201763	225533	470458	415895	318466	211411
Shrimp, brine.....	4330	8520	17115	24750	11250	22395	34650	39900	46260	62520
Shrimp, ghost.....	66677	71728	51175	107897	237379	151555	135904	90038	97903	98412
Shrimp, mud.....	0	0	0	0	12782	185811	64882	66198	67123	86745
Shrimp, pink.....	13042627	9288864	4656160	2148029	5241302	18104562	30272202	17149668	17906265	15628757
Shrimp, spot.....	0	0	0	0	0	0	0	0	259	0
Water flea (Daphnia)..	0	0	0	0	0	0	0	0	3000	0
MOLLUSKS:										
Clams, butter.....	663	1175	1642	1967	715	1368	1422	1549	1547	1313

TABLE 3B. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF COMMERCIAL FISH AND SHELLFISH LANDINGS IN OREGON, 1981-1990. (CONT).

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Clams, cockle.....	1137	2615	861	7686	11734	12839	5704	12075	20643	24504
Clams, gaper.....	21369	34852	29477	15804	5492	3487	1573	1176	1750	4083
Clams, littleneck.....	5193	14268	36620	48320	45219	28352	15716	8219	8951	11775
Clams, softshell.....	403	166	36	185	705	2672	524	554	450	3377
Clams, razor.....	34967	42807	189	10417	114989	6058	64172	86831	87962	39487
Mussels, ocean.....	15642	24911	17116	31168	30161	33377	26478	20075	21871	14388
Mussels, bay.....	0	0	55	3605	0	666	0	0	0	0
Mussels, freshwater...	0	0	0	0	0	0	954	744	1094	2885
Octopus.....	6254	8354	7065	5924	4151	5861	14199	31282	8625	11532
Scallops, rock.....	0	0	0	0	0	0	0	0	10	1
Scallops, weathervane	4671448	427292	778781	1017784	327922	47588	6406	12017	0	767
Squid.....	45	9117	79901	199941	318577	2684	3	1	7683	0
OTHER INVERTEBRATES:										
Sea urchins.....	0	0	0	0	0	14707	0	0	0	0
Sea urchins, red.....	0	0	0	0	0	0	51360	571083	2728272	4413286
Bloodworms.....	0	0	0	0	0	0	0	0	11	0
Worms, tube.....	0	0	0	667	535	0	0	314	773	0
TOTAL	57556927	52209637	38147769	34365180	45814646	61727192	94702340	97837159	77427102	71494182

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

2/ INCLUDED IN PACIFIC OCEAN PERCH.

3/ INCLUDED IN ROCKFISH, OTHER SPP.

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

TABLE 4. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY PORT IN OREGON, 1990.

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:															
Cabezon.....	0	52	540	0	1408	6506	0	0	1423	0	873	0	581	0	11383
Cod, Pacific.....	0	465948	19116	0	0	19935	0	0	5269	0	0	0	11	0	510279
Flounder, arrowtooth..	0	3371302	147049	0	0	296960	0	0	150626	0	42	0	34900	0	4000879
Flounder, starry.....	3840	195937	5726	0	0	15846	0	83	16203	0	6	0	205	0	237846
Greenling.....	0	3	0	0	0	4	0	0	0	0	0	0	0	0	7
Grenadier.....	0	0	0	0	0	417	0	0	131988	0	0	0	59426	0	191831
Hagfish.....	0	1432	0	0	0	9321	0	0	32463	0	116818	0	7419	0	167453
Halibut, Pacific.....	0	527599	1267	146	177	83945	1665	2542	3121	117	806	41	807	0	622233
Herring, Pacific.....	0	0	0	0	0	474584	0	1050	0	0	0	0	0	0	475634
Lamprey.....	0	0	0	0	0	0	0	0	0	0	0	0	0	14203	14203
Lingcod.....	0	789933	86861	19354	3241	396304	80	8458	372106	365	48204	34827	167881	0	1927614
Mackerel.....	0	1569	17059	2590	0	765	43	0	61	0	0	0	33	559	22679
Pollock, walleye.....	0	23	0	0	0	0	0	0	8	0	0	0	0	0	31
Ratfish.....	0	0	0	0	0	24	0	0	0	0	0	0	0	0	24
Pac. Oc. Perch.....	0	819488	17405	0	0	220207	0	119	26990	0	0	0	0	0	1084209
Nominal POP.....	0	331225	384763	0	0	1747357	0	0	455124	0	382	0	72430	0	2991281
Rockfish, widow.....	0	3760877	314430	0	0	5598659	0	0	1693101	0	7884	6	851601	0	12226558
Rockfish, yellowtail..	0	2701931	157839	0	0	490520	0	0	533660	0	2890	0	124761	0	4011601
Rkfsh, Sebastolobus...	0	1225704	51853	0	0	971149	0	0	6072440	0	0	0	1659831	0	9980977
Rockfish, other spp...	0	3076688	297330	43816	3644	1191356	543	11154	1817825	20698	333755	60518	276805	353	7134485
Sablefish.....	0	2024032	194075	0	0	1708215	403063	52240	2895075	0	124363	21570	808344	0	8230977
Salmon, chinook.....	1694143	28861	127842	30625	8135	437227	94772	246169	1204850	123800	132279	16762	51466	5293	4202224
Salmon, chum.....	3226	0	5	17	89	192	16	90	249	13	12	0	0	0	3909
Salmon, coho.....	313029	66254	176806	129839	1277	82610	27168	46626	139779	12460	21865	1268	4443	18484	1041908
Sanddab, Pacific.....	0	125294	5223	0	0	149115	14	0	148850	0	0	0	1120	0	429616
Irish Lord, Brown.....	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Irish Lord, Red.....	0	25	0	0	0	10	0	0	0	0	0	0	0	0	35

TABLE 4. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY PORT IN OREGON, 1990. (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
Sculpin, Buffalo.....	0	0	0	0	0	8	0	0	0	0	0	0	0	0	8
Shad, American.....	447502	0	0	0	0	0	2998	47013	0	0	0	0	0	0	497513
Shark, blue.....	0	0	0	0	0	56	0	0	0	0	0	0	0	0	56
Shark, sixgill.....	0	0	0	0	0	30	0	0	88	0	0	0	0	0	118
Shark, soupfin.....	0	2197	114	66	0	713	0	0	418	0	103	0	98	0	3709
Shark, spiny dogfish..	0	15330	0	0	0	281	0	0	0	0	0	0	0	0	15611
Shark, thresher.....	0	66	32	0	0	44	0	0	57	0	0	0	456	0	655
Shark, other.....	0	0	0	0	0	67	0	0	25	0	0	0	0	0	92
Skates and rays.....	0	50	79	0	0	1794	164	0	0	0	25	0	0	0	2112
Smelt.....	1068	0	0	0	0	0	0	0	40	0	0	0	0	0	1108
Sole, curlfin (turbot)	0	30	0	0	0	16	0	0	528	0	0	0	0	0	574
Sole, Dover.....	0	6505828	693692	0	0	2015852	0	2328	6328122	0	365	0	1007570	0	16553757
Sole, English.....	0	595816	12667	0	0	279265	0	468	209067	0	0	0	24926	0	1122209
Sole, flathead.....	0	17111	0	0	0	0	0	0	0	0	0	0	0	0	17111
Sole, petrale.....	0	646340	92118	0	0	289396	0	59	513644	0	0	0	98350	0	1639907
Sole, rex.....	0	333381	15499	0	0	74862	0	42	41496	0	20	0	34834	0	500134
Sole, rock.....	0	158	0	0	0	100	0	0	4760	0	0	0	0	0	5018
Sole, sand.....	0	210387	41422	0	0	102790	0	923	110245	0	0	0	1963	0	467730
Steelhead.....	163502	0	0	0	0	0	0	0	0	0	0	0	0	0	163502
Sturgeon, green.....	4860	1944	238	0	0	1664	0	0	822	0	0	0	0	0	9528
Sturgeon, white.....	173522	8634	109	0	0	0	0	0	2043	0	0	0	0	0	184308
Surfperch.....	0	0	0	0	10	2352	0	0	0	0	0	0	2591	0	4953
Tuna, albacore.....	0	827340	16936	814	0	869007	18454	98502	205329	1541	4073	0	37316	0	2079312
Walleye.....	1268	0	0	0	0	0	0	0	0	0	0	0	0	0	1268
Whiting, Pac. (Hake)..	0	69718	0	0	0	4850539	0	0	138084	0	0	0	0	0	5058341
Wolf-eel.....	0	1335	385	40	0	1012	0	0	218	0	4	0	0	0	2994
Wrymouth.....	0	132	0	0	0	0	0	0	10	0	0	0	0	0	142

CRUSTACEANS:

TABLE 4. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY PORT IN OREGON, 1990. (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	
Barnacle, Gooseneck...	0	0	0	0	12	0	0	0	0	0	0	0	0	0	12
Crab, box.....	0	0	0	0	0	8556	0	0	30	0	0	0	0	0	8586
Crab, Dungeness, Bay..	0	0	0	0	0	730	0	8231	36917	261	0	0	0	15926	62065
Crab, Dungeness, Oc...	0	3169913	299712	672	38825	1939534	211166	571982	1303402	16235	491882	408	1404021	0	9447752
Crab, Hermit.....	0	0	0	0	0	21	0	0	0	0	0	0	0	0	21
Crab, rock.....	0	0	0	0	0	4061	0	0	510	0	0	0	0	0	4571
Crayfish.....	0	0	0	0	0	0	0	0	0	0	0	0	0	169909	169909
Shrimp, brine.....	0	0	0	0	0	0	0	0	0	0	0	0	0	39300	39300
Shrimp, ghost.....	0	0	10816	10452	0	0	103	0	3622	95	0	0	0	47690	72778
Shrimp, mud.....	0	0	5671	0	0	0	0	0	0	0	0	0	0	46240	51911
Shrimp, pink.....	0	9246112	2796109	0	0	9444150	0	148382	6908837	2250	156066	0	3180864	0	31882770
MOLLUSKS:															
Clams, butter.....	0	0	1231	0	0	0	0	0	3373	0	0	0	0	0	4604
Clams, cockle.....	0	0	44043	0	10	0	0	12	1157	0	0	0	0	385	45607
Clams, gaper.....	0	0	575	0	0	450	0	0	9366	0	0	0	0	0	10391
Clams, littleneck....	0	0	1284	0	0	0	0	0	467	0	0	0	0	5770	7521
Clams, softshell.....	0	0	65	0	0	1083	0	3420	0	0	0	0	0	65	4633
Clams, razor.....	0	0	0	0	0	0	0	0	0	0	0	0	0	13474	13474
Mussels, ocean.....	0	0	0	1900	218	335	1400	35438	1394	0	2225	0	0	1535	44445
Mussels, freshwater...	0	0	0	0	0	0	0	0	0	0	0	0	0	9946	9946
Octopus.....	0	4172	70	0	50	2421	65	0	109	0	3147	0	6988	0	17022
Scallops, rock.....	0	0	0	0	0	0	0	0	0	0	24	0	0	0	24
Scallops, weathervane	0	0	0	0	0	1781	0	0	0	0	0	0	0	0	1781
OTHER INVERTEBRATES:															
Sea urchins, red.....	0	0	19497	20025	1152121	220647	0	0	290484	0	4915273	2588924	113897	0	9320868
TOTAL	2805960	41170171	6057553	260356	1209217	34014846	761714	1285331	31815875	177835	6363386	2724324	10035938	389132	139071638

1/ OREGON LANDINGS ONLY.

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

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

TABLE 5. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH IN OREGON, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	154	2294	2143	2800	864	549	975	704	368	198	110	224	11383
Cod, Pacific.....	15172	4744	23465	34021	50008	88353	94275	117101	58842	15169	3275	5854	510279
Flounder, arrowtooth..	87561	83252	218962	134490	303329	418367	982279	828240	595631	185734	83316	79718	4000879
Flounder, starry.....	77	4630	16039	5483	9870	9206	88407	57830	26586	13181	6523	14	237846
Greenling.....	0	0	0	0	0	0	7	0	0	0	0	0	7
Grenadier.....	480	1887	11398	2140	6355	15966	22585	49435	27398	24367	17136	12684	191831
Hagfish.....	0	0	0	6236	4517	0	1426	35385	21269	10222	48568	39830	167453
Halibut, Pacific.....	100	40	172	0	125011	208781	69915	115851	102160	31	42	130	622233
Herring, Pacific.....	0	473952	125	117	387	0	601	452	0	0	0	0	475634
Lamprey.....	0	0	0	0	0	9282	4921	0	0	0	0	0	14203
Lingcod.....	118802	96662	115247	95660	95574	166391	206921	336804	399126	120620	62383	113424	1927614
Mackeral.....	0	0	0	0	0	2	4294	16737	1476	170	0	0	22679
Pollock, walleye.....	0	0	23	0	0	0	8	0	0	0	0	0	31
Ratfish.....	0	0	0	9	3	6	0	4	2	0	0	0	24
Pac. Oc. Perch.....	97513	82320	158409	60082	73188	88664	90519	119101	149264	67160	45982	52007	1084209
Nominal POP.....	314496	393623	669284	130991	125230	140831	183648	235828	350740	125769	147222	173619	2991281
Rockfish, widow.....	1058828	1216119	1827327	552457	545442	528885	1085623	1207811	1472079	1194212	1113236	424539	12226558
Rockfish, yellowtail..	295243	293984	609446	383505	490583	409823	452836	248796	233420	300419	188683	104863	4011601
Rkfish, Sebastolobus...	719161	745885	1416727	600179	858760	704579	838950	1265346	1133324	596853	649938	451275	9980977
Rockfish, other spp...	367255	314970	640081	542656	703692	726729	489837	748304	1290671	616637	435396	258257	7134485
Sablefish.....	351503	353179	850128	965107	1223693	1386109	620427	794749	731964	369312	320725	264081	8230977
Salmon, chinook.....	0	129956	91513	0	167876	380869	1146258	970757	1154782	160031	182	0	4202224
Salmon, chum.....	0	0	0	0	197	388	98	0	11	3215	0	0	3909
Salmon, coho.....	0	0	0	0	0	658	483197	205156	234411	118486	0	0	1041908
Sanddab, Pacific.....	8071	21875	27457	13878	31077	20955	17251	59753	117413	49083	35729	27074	429616
Irish Lord, Brown.....	0	0	1	0	0	0	0	0	0	0	0	0	1
Irish Lord, Red.....	0	0	2	0	0	6	25	0	0	2	0	0	35
Sculpin, Buffalo.....	0	0	0	0	0	0	1	7	0	0	0	0	8
Shad, American.....	0	0	0	0	187650	309863	0	0	0	0	0	0	497513

TABLE 5. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH IN OREGON, 1990. (CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Shark, blue.....	0	0	0	0	0	0	0	56	0	0	0	0	56
Shark, sixgill.....	0	0	0	0	0	88	0	0	0	30	0	0	118
Shark, soupfin.....	266	141	131	20	171	506	436	1271	466	159	100	42	3709
Shark, spiny dogfish..	210	660	85	30	0	45	23	5	54	2729	0	11770	15611
Shark, thresher.....	0	0	0	0	0	456	0	66	44	32	57	0	655
Shark, other.....	0	0	0	0	0	0	0	92	0	0	0	0	92
Skates and rays.....	75	532	383	0	22	23	223	439	256	93	66	0	2112
Smelt.....	1068	0	0	0	0	0	40	0	0	0	0	0	1108
Sole, curlfin (turbot)	0	30	0	0	72	24	308	60	80	0	0	0	574
Sole, Dover.....	1279353	1299212	2957044	1836055	1230235	709081	1045969	1677835	1967029	883693	756050	912201	16553757
Sole, English.....	46249	52060	76754	22660	65684	91460	136160	240083	261171	68338	37474	24116	1122209
Sole, flathead.....	0	0	10140	30	0	16	260	0	0	6665	0	0	17111
Sole, petrale.....	374843	154863	107227	31618	38140	55859	97830	154180	106734	39084	88463	391066	1639907
Sole, rex.....	34719	51766	38772	21986	30520	49388	68172	60683	72242	29966	17853	24067	500134
Sole, rock.....	100	0	0	0	2352	161	1089	864	452	0	0	0	5018
Sole, sand.....	777	303	2889	10155	41402	52791	124557	158289	66392	4101	6068	6	467730
Steelhead.....	0	13498	15778	0	0	0	0	29922	104261	43	0	0	163502
Sturgeon, green.....	98	22	106	146	710	815	623	655	4383	1549	421	0	9528
Sturgeon, white.....	474	22173	15144	3836	1612	145	55	79617	40196	19552	1504	0	184308
Surfperch.....	10	792	134	562	260	320	998	888	831	139	19	0	4953
Tuna, albacore.....	0	0	0	0	0	0	0	927826	1010221	109732	28497	3036	2079312
Walleye.....	0	285	384	0	0	0	0	377	222	0	0	0	1268
Whiting, Pac. (Hake)..	0	0	0	61295	84730	25000	49386	499731	1460739	1991640	885758	62	5058341
Wolf-eel.....	0	33	141	376	1018	439	789	89	73	0	26	10	2994
Wrymouth.....	0	8	24	0	10	20	0	70	10	0	0	0	142
CRUSTACEANS:													
Barnacle, Gooseneck...	0	0	0	0	0	12	0	0	0	0	0	0	12
Crab, box.....	0	0	6467	2023	0	0	30	2	64	0	0	0	8586
Crab, Dungeness, Bay..	0	0	0	0	0	0	55	0	12530	32257	15106	2117	62065
Crab, Dungeness, Oc...	1558572	669696	665273	301878	261784	177542	221934	142686	0	0	0	5448387	9447752

TABLE 5. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH IN OREGON, 1990. (CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Crab, Hermit.....	0	0	11	2	8	0	0	0	0	0	0	0	21
Crab, rock.....	0	49	470	139	175	359	116	214	296	1688	590	475	4571
Crayfish.....	0	0	0	6746	13760	28286	54940	35241	19884	11052	0	0	169909
Shrimp, brine.....	0	0	0	0	9500	10600	11000	8200	0	0	0	0	39300
Shrimp, ghost.....	1601	1418	3736	4702	9899	11315	7841	7368	8618	10468	3415	2397	72778
Shrimp, mud.....	5869	4858	6032	9154	4407	3128	1215	1816	2121	2469	7598	3244	51911
Shrimp, pink.....	0	0	0	6010913	7585890	7548026	4011721	3466312	2360400	899508	0	0	31882770
MOLLUSKS:													
Clams, butter.....	55	122	315	707	876	555	695	740	305	187	40	7	4604
Clams, cockle.....	5100	1000	7193	1558	11704	4070	3590	300	2440	0	6240	2412	45607
Clams, gaper.....	0	0	0	0	0	0	1212	1778	3102	3567	580	152	10391
Clams, littleneck.....	0	0	72	598	744	784	570	1590	1716	1115	266	66	7521
Clams, softshell.....	25	205	428	100	150	275	708	838	768	196	314	626	4633
Clams, razor.....	54	419	2120	2399	3623	1929	211	0	475	421	1304	519	13474
Mussels, ocean.....	6468	8731	5525	4231	9483	2511	1600	2005	801	1160	1650	280	44445
Mussels, freshwater...	0	0	0	0	0	0	0	0	9946	0	0	0	9946
Octopus.....	1428	681	1092	991	642	1824	1153	1316	1121	109	118	6547	17022
Scallops, rock.....	0	0	24	0	0	0	0	0	0	0	0	0	24
Scallops, weathervane	0	1781	0	0	0	0	0	0	0	0	0	0	1781
OTHER INVERTEBRATES:													
Sea urchins, red.....	466093	670400	730458	1022304	1011638	1399457	1077238	922170	737370	309948	456053	517739	9320868
TOTAL	7217923	7175110	11332301	12887025	15424527	15792572	13808031	15839825	16358750	8402561	5474076	9358937	139071638

TABLE 6. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH FROM THE COLUMBIA RIVER, 1990. 1/

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<u>BELOW BONNEVILLE DAM</u>													
FISH:													
Flounder, starry.....	0	675	1202	0	0	0	0	361	1533	69	0	0	3840
Salmon, chinook.....	0	129956	91478	0	0	0	0	151999	439444	93202	0	0	906079
Salmon, chum.....	0	0	0	0	0	0	0	0	11	3215	0	0	3226
Salmon, coho.....	0	0	0	0	0	0	0	1854	191363	115983	0	0	309200
Shad, American.....	0	0	0	0	158687	288388	0	0	0	0	0	0	447075
Smelt.....	1068	0	0	0	0	0	0	0	0	0	0	0	1068
Sturgeon, green.....	0	22	48	0	0	0	0	210	3913	667	0	0	4860
Sturgeon, white.....	0	6640	6358	0	0	0	0	41771	29334	12444	0	0	96547
TOTAL	1068	137293	99086	0	158687	288388	0	196195	665598	225580	0	0	1771895
<u>ABOVE BONNEVILLE DAM</u>													
FISH:													
Salmon, chinook.....	0	0	35	0	0	0	0	172540	615450	39	0	0	788064
Salmon, coho.....	0	0	0	0	0	0	0	117	3712	0	0	0	3829
Shad, American.....	0	0	0	0	0	427	0	0	0	0	0	0	427
Steelhead.....	0	13498	15778	0	0	0	0	29922	104261	43	0	0	163502
Sturgeon, white.....	474	15533	8786	3836	402	0	0	37355	10589	0	0	0	76975
Walleye.....	0	285	384	0	0	0	0	377	222	0	0	0	1268
TOTAL	474	29316	24983	3836	402	427	0	240311	734234	82	0	0	1034065
TOTAL	1542	166609	124069	3836	159089	288815	0	436506	1399832	225662	0	0	2805960

1/ OREGON LANDINGS ONLY.

TABLE 7. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT ASTORIA, 1990. 1/ 2/

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	0	0	0	0	0	0	15	37	0	0	0	0	52
Cod, Pacific.....	13221	4151	22015	31386	47181	85356	84623	108507	49957	12062	2932	4557	465948
Flounder, arrowtooth..	52285	64585	158586	95401	269433	334596	911832	737183	470320	150197	65226	61658	3371302
Flounder, starry.....	0	3841	14552	4139	5271	5461	81754	45063	19589	12113	4154	0	195937
Greenling.....	0	0	0	0	0	0	3	0	0	0	0	0	3
Hagfish.....	0	0	0	476	956	0	0	0	0	0	0	0	1432
Halibut, Pacific.....	0	0	0	0	120249	201423	0	111058	94869	0	0	0	527599
Lingcod.....	42275	32453	25628	15977	41810	77410	74626	142602	192810	54658	12514	77170	789933
Mackerel.....	0	0	0	0	0	0	0	1185	384	0	0	0	1569
Pollock, walleye.....	0	0	23	0	0	0	0	0	0	0	0	0	23
Pac. Oc. Perch.....	62282	45601	81153	42898	69426	74776	82468	103097	118423	60697	37985	40682	819488
Nominal POP.....	17539	24093	31736	25459	34526	21051	33884	42137	54036	23538	12726	10500	331225
Rockfish, widow.....	281677	296837	501672	193382	273534	305903	399325	482517	416020	326565	184579	98866	3760877
Rockfish, yellowtail..	161027	177170	362421	304776	427390	390352	398101	208521	117204	80817	35704	38448	2701931
Rkfish, Sebastolobus...	68168	46872	149535	170093	91705	25950	104353	174772	166304	83603	84819	59530	1225704
Rockfish, other spp...	227529	176092	301956	267422	329001	404400	246436	295884	416419	157769	127996	125784	3076688
Sablefish.....	109862	107187	217261	216350	266150	325147	153317	192963	225945	66911	71839	71100	2024032
Salmon, chinook.....	0	0	0	0	7172	1348	306	7345	11726	964	0	0	28861
Salmon, coho.....	0	0	0	0	0	0	102	31718	31940	2494	0	0	66254
Sanddab, Pacific.....	1020	11355	11470	12834	14734	7984	8224	19074	28042	5065	5025	467	125294
Irish Lord, Red.....	0	0	0	0	0	0	25	0	0	0	0	0	25
Shark, soupfin.....	178	0	34	20	66	180	333	1101	285	0	0	0	2197
Shark, spiny dogfish..	210	660	0	30	0	30	0	0	0	2630	0	11770	15330
Shark, thresher.....	0	0	0	0	0	0	0	66	0	0	0	0	66
Skates and rays.....	0	5	0	0	0	0	0	45	0	0	0	0	50
Sole, curlfin (turbot)	0	30	0	0	0	0	0	0	0	0	0	0	30
Sole, Dover.....	391832	491868	1409169	1132986	651546	229050	343053	436718	513342	249362	285222	371680	6505828
Sole, English.....	22999	30922	36941	17795	36482	63794	74382	105560	163676	19895	17106	6264	595816
Sole, flathead.....	0	0	10140	30	0	16	260	0	0	6665	0	0	17111

TABLE 7. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT ASTORIA, 1990. 1/ 2/ (CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Sole, petrale.....	148506	76482	62985	24993	26761	42332	21872	41884	40449	9621	33227	117228	646340
Sole, rex.....	11184	29790	16743	13712	26293	42877	57432	47418	53955	13091	7398	13488	333381
Sole, rock.....	0	0	0	0	158	0	0	0	0	0	0	0	158
Sole, sand.....	0	0	2448	4892	16104	13031	62804	78614	28614	1263	2617	0	210387
Sturgeon, green.....	0	0	58	0	207	161	237	247	270	764	0	0	1944
Sturgeon, white.....	0	0	0	0	0	0	0	22	0	7108	1504	0	8634
Tuna, albacore.....	0	0	0	0	0	0	0	411948	357520	57872	0	0	827340
Whiting, Pac. (Hake)..	0	0	0	0	690	0	44226	842	23960	0	0	0	69718
Wolf-eel.....	0	0	43	92	433	133	550	70	14	0	0	0	1335
Wrymouth.....	0	8	24	0	10	20	0	70	0	0	0	0	132
CRUSTACEANS:													
Crab, Dungeness, Oc...	1011999	300428	233189	100061	91288	32794	26953	9303	0	0	0	1363898	3169913
Shrimp, pink.....	0	0	0	1506596	2347773	2085702	1514560	1134722	492192	164567	0	0	9246112
MOLLUSKS:													
Octopus.....	20	105	370	107	298	1034	629	895	667	12	35	0	4172
TOTAL	2623813	1920535	3650152	4181907	5196647	4772311	4726685	4973188	4088932	1570303	992608	2473090	41170171

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, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Mackeral.....	0	0	0	0	0	0	0	559	0	0	0	0	559
Salmon, chinook.....	0	0	0	0	0	0	0	581	1717	51	0	0	2349
Salmon, coho.....	0	0	0	0	0	0	0	1965	6009	9	0	0	7983
MOLLUSKS:													
Clams, razor.....	54	419	2120	2399	3623	1929	211	0	475	421	1304	519	13474
TOTAL	54	419	2120	2399	3623	1929	211	3105	8201	481	1304	519	24365

TABLE 7B. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT CANNON BEACH, 1990.

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	10	0	0	0	0	10
Salmon, chinook.....	0	0	0	0	0	0	880	222	139	0	0	0	1241
Salmon, coho.....	0	0	0	0	0	0	2591	1996	190	0	0	0	4777
TOTAL	0	0	0	0	0	0	3471	2228	329	0	0	0	6028

TABLE 8. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT NEHALEM BAY, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
CRUSTACEANS:													
Crab, Dungeness, Bay..	0	0	0	0	0	0	55	0	0	0	0	0	55
Shrimp, ghost.....	90	54	186	108	467	384	309	249	996	1253	180	126	4402
MOLLUSKS:													
Clams, littleneck.....	0	0	0	208	279	594	413	1504	1669	1103	0	0	5770
Clams, softshell.....	0	0	0	0	0	0	0	40	0	0	0	0	40
TOTAL	90	54	186	316	746	978	777	1793	2665	2356	180	126	10267

TABLE 9. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT GARIBALDI, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabazon.....	0	0	6	0	106	269	154	5	0	0	0	0	540
Cod, Pacific.....	756	524	1200	2594	2673	1034	528	3051	4451	1003	275	1027	19116
Flounder, arrowtooth..	19577	11003	32654	33237	6228	1430	4062	9448	9354	4267	4985	10804	147049
Flounder, starry.....	0	114	0	8	231	979	1195	3120	79	0	0	0	5726
Halibut, Pacific.....	0	0	0	0	0	0	468	501	298	0	0	0	1267
Lingcod.....	3813	2930	13582	5290	5003	3303	1024	20887	27251	2493	34	1251	86861
Mackeral.....	0	0	0	0	0	0	3527	12830	702	0	0	0	17059
Pac. Oc. Perch.....	3594	0	4189	9128	5	0	0	0	111	0	0	378	17405
Nominal POP.....	30549	43883	77116	47172	21570	21391	22055	59055	46681	5737	1695	7859	384763
Rockfish, widow.....	30122	51217	72144	87020	7850	8808	9706	921	12216	16379	165	17882	314430
Rockfish, yellowtail..	35950	5052	28393	35162	15340	8617	10972	3679	3913	42	0	10719	157839
Rkfsh, Sebastolobus...	2961	4358	13564	14134	1945	32	45	1702	3018	1967	3144	4983	51853
Rockfish, other spp...	15194	19360	35175	36444	38999	35258	27616	29804	40436	7083	1609	10352	297330
Sablefish.....	10149	10932	25300	22802	29026	60960	650	8116	11984	2529	3324	8303	194075
Salmon, chinook.....	0	0	0	0	4566	3278	42780	23892	26281	27045	0	0	127842
Salmon, chum.....	0	0	0	0	0	0	5	0	0	0	0	0	5
Salmon, coho.....	0	0	0	0	0	0	81890	94800	116	0	0	0	176806
Sanddab, Pacific.....	0	63	1094	919	406	42	271	2381	47	0	0	0	5223
Shark, soupfin.....	0	57	0	0	0	29	0	28	0	0	0	0	114
Shark, thresher.....	0	0	0	0	0	0	0	0	0	32	0	0	32
Skates and rays.....	0	0	0	0	0	0	0	79	0	0	0	0	79
Sole, Dover.....	32289	111623	212678	144645	12340	3210	1599	24586	37969	14642	40091	58020	693692
Sole, English.....	1046	662	2309	2001	1257	41	454	2801	1561	199	208	128	12667
Sole, petrale.....	32378	22371	14797	5221	732	63	581	2662	1852	423	453	10585	92118
Sole, rex.....	2367	2163	2580	3408	178	3	12	1413	2311	549	35	480	15499
Sole, sand.....	0	303	0	37	1213	14400	10755	14419	295	0	0	0	41422
Sturgeon, green.....	0	0	0	0	44	87	0	107	0	0	0	0	238
Sturgeon, white.....	0	0	0	0	0	0	0	109	0	0	0	0	109
Tuna, albacore.....	0	0	0	0	0	0	0	3225	8890	4821	0	0	16936

TABLE 9. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT GARIBALDI, 1990.

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Wolf-eel.....	0	6	4	16	41	173	138	7	0	0	0	0	385
CRUSTACEANS:													
Crab, Dungeness, Oc...	21068	29535	58164	30584	28137	30355	22958	14008	0	0	0	64903	299712
Shrimp, ghost.....	147	145	755	735	1452	2053	1591	1531	1112	977	273	45	10816
Shrimp, mud.....	1656	836	608	137	130	216	113	0	0	40	1059	876	5671
Shrimp, pink.....	0	0	0	230049	552234	794589	534867	270843	299174	114353	0	0	2796109
MOLLUSKS:													
Clams, butter.....	0	0	155	115	376	90	455	0	0	0	40	0	1231
Clams, cockle.....	5100	1000	7193	1173	11407	3300	3490	300	2440	0	6240	2400	44043
Clams, gaper.....	0	0	0	0	0	0	25	0	0	0	550	0	575
Clams, littleneck....	0	0	50	316	415	10	148	0	20	0	266	59	1284
Clams, softshell.....	0	0	0	35	0	0	30	0	0	0	0	0	65
Octopus.....	4	0	0	56	0	0	0	10	0	0	0	0	70
OTHER INVERTEBRATES:													
Sea urchins, red.....	0	0	0	0	0	19497	0	0	0	0	0	0	19497
TOTAL	248720	318137	603710	712438	743904	1013517	784164	610320	542562	204581	64446	211054	6057553

TABLE 10. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT NETARTS BAY, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Rockfish, other spp...	0	0	0	0	0	0	202	69	72	0	0	0	343
Salmon, chinook.....	0	0	0	0	0	0	711	365	402	0	0	0	1478
Salmon, coho.....	0	0	0	0	0	0	2621	3036	0	0	0	0	5657
CRUSTACEANS:													
Shrimp, ghost.....	0	8	0	0	0	0	0	0	0	0	0	0	8
Shrimp, mud.....	4213	4022	5424	9017	4277	2912	1102	1816	2121	2429	6539	2368	46240
MOLLUSKS:													
Mussels, ocean.....	0	0	0	0	230	100	0	100	0	100	0	280	810
TOTAL	4213	4030	5424	9017	4507	3012	4636	5386	2595	2529	6539	2648	54536

TABLE 11. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT PACIFIC CITY, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Halibut, Pacific.....	0	0	0	0	0	0	21	66	59	0	0	0	146
Lingcod.....	0	13	218	1425	2058	1791	2839	1124	1057	1787	4909	2133	19354
Mackeral.....	0	0	0	0	0	0	361	1911	318	0	0	0	2590
Rockfish, other spp...	0	146	1771	1757	7354	8399	13081	5320	5045	301	196	446	43816
Salmon, chinook.....	0	0	0	0	54	2273	16386	8195	1775	1942	0	0	30625
Salmon, chum.....	0	0	0	0	0	17	0	0	0	0	0	0	17
Salmon, coho.....	0	0	0	0	0	0	61119	67639	1081	0	0	0	129839
Shark, soupfin.....	0	0	0	0	0	66	0	0	0	0	0	0	66
Tuna, albacore.....	0	0	0	0	0	0	0	0	814	0	0	0	814
Wolf-eel.....	0	0	0	0	0	40	0	0	0	0	0	0	40
CRUSTACEANS:													
Crab, Dungeness, Oc...	0	0	0	0	0	0	202	470	0	0	0	0	672
Shrimp, ghost.....	62	58	430	467	1581	1480	1300	888	1493	1806	571	316	10452
MOLLUSKS:													
Mussels, ocean.....	0	0	0	0	0	500	0	200	0	0	1200	0	1900
OTHER INVERTEBRATES:													
Sea urchins, red.....	0	0	0	0	570	11685	7770	0	0	0	0	0	20025
TOTAL	62	217	2419	3649	11617	26251	103079	85813	11642	5836	6876	2895	260356

TABLE 12. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT SILETZ BAY, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 13. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT DEPOE BAY, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabazon.....	0	0	436	364	372	167	28	21	20	0	0	0	1408
Halibut, Pacific.....	0	0	0	0	0	0	177	0	0	0	0	0	177
Lingcod.....	64	0	171	813	1257	202	146	41	262	37	248	0	3241
Rockfish, other spp....	0	0	76	372	2331	101	194	16	437	73	44	0	3644
Salmon, chinook.....	0	0	0	0	0	1961	2402	323	2138	1311	0	0	8135
Salmon, chum.....	0	0	0	0	0	89	0	0	0	0	0	0	89
Salmon, coho.....	0	0	0	0	0	0	1277	0	0	0	0	0	1277
Surfperch.....	0	0	0	0	0	10	0	0	0	0	0	0	10
CRUSTACEANS:													
Barnacle, Goose-neck....	0	0	0	0	0	12	0	0	0	0	0	0	12
Crab, Dungeness, Oc....	1103	532	2436	2363	3649	5603	6655	4393	0	0	0	12091	38825
MOLLUSKS:													
Clams, cockle.....	0	0	0	0	0	10	0	0	0	0	0	0	10
Mussels, ocean.....	0	0	0	0	30	113	40	35	0	0	0	0	218
Octopus.....	0	0	0	0	0	0	50	0	0	0	0	0	50
OTHER INVERTEBRATES:													
Sea urchins, red.....	0	0	19045	34691	114687	657037	232656	53258	40747	0	0	0	1152121
TOTAL	1167	532	22164	38603	122326	665305	243625	58087	43604	1421	292	12091	1209217

TABLE 14. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT NEWPORT, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	138	2038	1538	1839	162	0	0	0	259	198	110	224	6506
Cod, Pacific.....	292	43	250	41	46	341	8176	4718	4067	1623	68	270	19935
Flounder, arrowtooth..	6530	4044	22143	3041	20519	46946	38271	50163	84205	12852	6704	1542	296960
Flounder, starry.....	77	0	285	1336	3362	1859	2046	499	3045	999	2326	12	15846
Greenling.....	0	0	0	0	0	0	4	0	0	0	0	0	4
Grenadier.....	0	0	0	0	0	0	0	90	0	0	0	327	417
Hagfish.....	0	0	0	5760	3561	0	0	0	0	0	0	0	9321
Halibut, Pacific.....	100	15	137	0	4762	7358	62241	2562	6567	31	42	130	83945
Herring, Pacific.....	0	473952	125	117	387	0	1	2	0	0	0	0	474584
Lingcod.....	57194	34958	40811	14971	8903	26309	67785	43597	31434	18955	23263	28124	396304
Mackeral.....	0	0	0	0	0	2	360	194	39	170	0	0	765
Ratfish.....	0	0	0	9	3	6	0	4	2	0	0	0	24
Pac. Oc. Perch.....	30640	35540	73067	7759	378	6521	6278	10531	27676	4079	6791	10947	220207
Nominal POP.....	235211	294744	522035	45175	18347	46705	77547	71077	188479	57616	80055	110366	1747357
Rockfish, widow.....	530905	689520	1003193	194063	137291	137842	601988	534614	485635	464432	586977	232199	5598659
Rockfish, yellowtail..	75613	97184	109825	28351	17168	8126	41825	17331	26591	30876	25506	12124	490520
Rkfish, Sebastolobus...	33843	23660	130362	66333	48515	108574	87113	144912	194463	37527	23532	72315	971149
Rockfish, other spp...	33274	61417	148516	128695	167213	123182	64116	132609	89738	129796	80880	31920	1191356
Sablefish.....	27180	31842	131670	285171	411802	414160	70073	112766	120176	51112	24386	27877	1708215
Salmon, chinook.....	0	0	0	0	27782	187550	167887	43047	5126	5835	0	0	437227
Salmon, chum.....	0	0	0	0	0	146	46	0	0	0	0	0	192
Salmon, coho.....	0	0	0	0	0	454	82085	71	0	0	0	0	82610
Sanddab, Pacific.....	6954	9688	14100	0	15290	11886	8374	26388	28747	20319	7369	0	149115
Irish Lord, Brown.....	0	0	1	0	0	0	0	0	0	0	0	0	1
Irish Lord, Red.....	0	0	2	0	0	6	0	0	0	2	0	0	10
Sculpin, Buffalo.....	0	0	0	0	0	0	1	7	0	0	0	0	8
Shark, blue.....	0	0	0	0	0	0	0	56	0	0	0	0	56
Shark, sixgill.....	0	0	0	0	0	0	0	0	0	30	0	0	30
Shark, soupfin.....	22	84	97	0	11	45	50	119	116	127	0	42	713

TABLE 14. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT NEWPORT, 1990.

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Shark, spiny dogfish..	0	0	85	0	0	15	23	5	54	99	0	0	281
Shark, thresher.....	0	0	0	0	0	0	0	0	44	0	0	0	44
Shark, other.....	0	0	0	0	0	0	0	67	0	0	0	0	67
Skates and rays.....	75	502	383	0	22	23	59	315	256	93	66	0	1794
Sole, curlfin (turbot)	0	0	0	0	0	0	0	0	16	0	0	0	16
Sole, Dover.....	68937	40182	306852	65111	124052	112900	187011	319084	469783	163112	80341	78487	2015852
Sole, English.....	5329	7862	18556	1171	19373	18914	45647	73496	44259	26848	11910	5900	279265
Sole, petrale.....	32832	11366	15455	328	6538	9185	59168	69196	31625	12976	4352	36375	289396
Sole, rex.....	7173	6610	13810	1667	2084	4174	5739	5924	8948	10388	6001	2344	74862
Sole, rock.....	100	0	0	0	0	0	0	0	0	0	0	0	100
Sole, sand.....	777	0	441	5226	18404	21505	19976	3279	27734	2003	3439	6	102790
Sturgeon, green.....	98	0	0	146	309	457	67	0	48	118	421	0	1664
Surfperch.....	0	0	4	10	254	252	726	534	436	117	19	0	2352
Tuna, albacore.....	0	0	0	0	0	0	0	413251	415212	40544	0	0	869007
Whiting, Pac. (Hake)..	0	0	0	61295	84040	25000	0	365965	1436779	1991640	885758	62	4850539
Wolf-eel.....	0	23	94	248	489	86	7	0	29	0	26	10	1012
CRUSTACEANS:													
Crab, box.....	0	0	6467	2023	0	0	0	2	64	0	0	0	8556
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	105	625	0	0	730
Crab, Dungeness, Oc...	189859	151869	99100	37351	30372	27273	54859	30884	0	0	0	1317967	1939534
Crab, Hermit.....	0	0	11	2	8	0	0	0	0	0	0	0	21
Crab, rock.....	0	49	470	139	175	359	116	214	213	1508	343	475	4061
Shrimp, pink.....	0	0	0	2145973	2314539	1594673	900359	1074923	990839	422844	0	0	9444150
MOLLUSKS:													
Clams, gaper.....	0	0	0	0	0	0	0	300	0	150	0	0	450
Clams, softshell.....	0	205	428	0	0	0	300	150	0	0	0	0	1083
Mussels, ocean.....	0	75	0	35	0	100	0	125	0	0	0	0	335
Octopus.....	30	86	280	136	243	374	268	147	98	90	79	590	2421
Scallops, weathervane	0	1781	0	0	0	0	0	0	0	0	0	0	1781

TABLE 14. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT NEWPORT, 1990.

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
OTHER INVERTEBRATES:													
Sea urchins, red.....	0	0	1598	2984	30791	95011	90263	0	0	0	0	0	220647
TOTAL	1343183	1979339	2662191	3106506	3517195	3038319	2750855	3553218	4722907	3509734	1860764	1970635	34014846

TABLE 15. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT WALDPOR, 1990.

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	3658	8744	3469	0	15871
Shrimp, ghost.....	1121	999	2185	3178	5744	6846	3862	4381	4693	6245	2254	1772	43280
MOLLUSKS:													
Clams, cockle.....	0	0	0	385	0	0	0	0	0	0	0	0	385
Clams, softshell.....	25	0	0	0	0	0	0	0	0	0	0	0	25
Mussels, ocean.....	0	0	475	0	0	0	0	250	0	0	0	0	725
TOTAL	1146	999	2660	3563	5744	6846	3862	4631	8351	14989	5723	1772	60286

TABLE 16. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT FLORENCE, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Halibut, Pacific.....	0	0	0	0	0	0	1665	0	0	0	0	0	1665
Lingcod.....	0	0	0	0	0	15	65	0	0	0	0	0	80
Mackeral.....	0	0	0	0	0	0	43	0	0	0	0	0	43
Rockfish, other spp...	0	0	0	0	28	37	467	0	11	0	0	0	543
Sablefish.....	0	19346	74715	97823	79216	122069	543	0	0	9351	0	0	403063
Salmon, chinook.....	0	0	0	0	6568	16237	58652	12609	706	0	0	0	94772
Salmon, chum.....	0	0	0	0	16	0	0	0	0	0	0	0	16
Salmon, coho.....	0	0	0	0	0	0	27168	0	0	0	0	0	27168
Sanddab, Pacific.....	0	0	0	0	0	0	0	14	0	0	0	0	14
Shad, American.....	0	0	0	0	666	2332	0	0	0	0	0	0	2998
Skates and rays.....	0	0	0	0	0	0	164	0	0	0	0	0	164
Tuna, albacore.....	0	0	0	0	0	0	0	14448	4006	0	0	0	18454
CRUSTACEANS:													
Crab, Dungeness, Oc...	23062	12341	18383	14201	13309	23767	33342	26315	0	0	0	46446	211166
Shrimp, ghost.....	0	0	10	18	75	0	0	0	0	0	0	0	103
MOLLUSKS:													
Mussels, ocean.....	0	0	300	750	0	0	0	0	0	100	250	0	1400
Octopus.....	0	0	0	0	0	65	0	0	0	0	0	0	65
TOTAL	23062	31687	93408	112792	99878	164522	122109	53386	4723	9451	250	46446	761714

TABLE 17. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT WINCHESTER BAY, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Flounder, starry.....	0	0	0	0	0	0	0	83	0	0	0	0	83
Halibut, Pacific.....	0	0	0	0	0	0	2542	0	0	0	0	0	2542
Herring, Pacific.....	0	0	0	0	0	0	600	450	0	0	0	0	1050
Lingcod.....	0	193	687	3412	317	120	453	278	2688	0	310	0	8458
Pac. Oc. Perch.....	0	0	0	0	0	0	0	0	77	42	0	0	119
Rockfish, other spp...	0	268	459	3380	2371	732	924	724	1656	176	464	0	11154
Sablefish.....	0	0	0	49528	764	1341	600	0	7	0	0	0	52240
Salmon, chinook.....	0	0	0	0	12394	51832	143972	36109	1821	41	0	0	246169
Salmon, chum.....	0	0	0	0	43	0	47	0	0	0	0	0	90
Salmon, coho.....	0	0	0	0	0	204	46410	12	0	0	0	0	46626
Shad, American.....	0	0	0	0	28297	18716	0	0	0	0	0	0	47013
Sole, Dover.....	0	0	0	0	25	921	426	30	715	211	0	0	2328
Sole, English.....	0	0	0	0	0	0	0	445	23	0	0	0	468
Sole, petrale.....	0	0	0	0	0	0	0	30	25	4	0	0	59
Sole, rex.....	0	0	0	0	0	0	0	42	0	0	0	0	42
Sole, sand.....	0	0	0	0	0	0	0	847	0	76	0	0	923
Tuna, albacore.....	0	0	0	0	0	0	0	40377	55864	2261	0	0	98502
CRUSTACEANS:													
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	1072	6170	989	0	8231
Crab, Dungeness, Oc...	46290	44873	35742	18560	23489	19570	49666	44032	0	0	0	289760	571982
Shrimp, pink.....	0	0	0	12506	8104	48574	32908	14030	30131	2129	0	0	148382
MOLLUSKS:													
Clams, cockle.....	0	0	0	0	0	0	0	0	0	0	0	12	12
Clams, softshell.....	0	0	0	65	150	275	378	648	768	196	314	626	3420
Mussels, ocean.....	6243	6656	4540	3362	9223	1698	960	995	801	960	0	0	35438
TOTAL	52533	51990	41428	90813	85177	143983	279886	139132	95648	12266	2077	290398	1285331

TABLE 18. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT CHARLESTON, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabazon.....	16	0	5	378	224	113	522	87	78	0	0	0	1423
Cod, Pacific.....	903	26	0	0	108	1622	948	825	356	481	0	0	5269
Flounder, arrowtooth..	8189	2700	5499	1238	6399	34090	22607	26242	23589	13232	3695	3146	150626
Flounder, starry.....	0	0	0	0	1006	907	3406	8624	2258	0	0	2	16203
Grenadier.....	0	117	3493	0	0	15086	18145	32215	22363	16007	14339	10223	131988
Hagfish.....	0	0	0	0	0	0	0	0	0	9442	23021	0	32463
Halibut, Pacific.....	0	25	35	0	0	0	2307	719	35	0	0	0	3121
Lingcod.....	8765	12605	18642	33807	18606	41189	42323	66546	73513	37358	15915	2837	372106
Mackerel.....	0	0	0	0	0	0	3	58	0	0	0	0	61
Pollock, walleye.....	0	0	0	0	0	0	8	0	0	0	0	0	8
Pac. Oc. Perch.....	997	1179	0	297	3379	7367	1773	5473	2977	2342	1206	0	26990
Nominal POP.....	28497	26788	34088	8493	46603	48237	41330	53328	39195	34956	49906	43703	455124
Rockfish, widow.....	215924	178545	188088	39042	60877	55869	34163	77596	337928	260631	207855	36583	1693101
Rockfish, yellowtail..	22558	14578	75347	5991	19570	2728	1660	8841	50283	177419	117058	37627	533660
Rkfish, Sebastolobus...	448324	533785	837121	223519	585240	517501	566619	720966	624625	349611	390207	274922	6072440
Rockfish, other spp...	74179	43532	123296	48691	137527	116935	94384	141803	476981	283930	196310	80257	1817825
Sablefish.....	172100	167132	322413	220541	345244	353924	248698	356016	301553	132732	144973	129749	2895075
Salmon, chinook.....	0	0	0	0	102796	104791	537895	409608	37763	11815	182	0	1204850
Salmon, chum.....	0	0	0	0	113	136	0	0	0	0	0	0	249
Salmon, coho.....	0	0	0	0	0	0	138460	1319	0	0	0	0	139779
Sanddab, Pacific.....	0	526	787	0	532	1043	382	11576	60432	23694	23271	26607	148850
Shark, sixgill.....	0	0	0	0	0	88	0	0	0	0	0	0	88
Shark, soupfin.....	0	0	0	0	94	99	53	12	28	32	100	0	418
Shark, thresher.....	0	0	0	0	0	0	0	0	0	0	57	0	57
Shark, other.....	0	0	0	0	0	0	0	25	0	0	0	0	25
Smelt.....	0	0	0	0	0	0	40	0	0	0	0	0	40
Sole, curlfin (turbot)	0	0	0	0	72	24	308	60	64	0	0	0	528
Sole, Dover.....	716148	635076	939942	414176	382936	330826	400618	687494	776863	362821	317494	363728	6328122
Sole, English.....	16460	12202	18862	1383	8223	8634	14668	49357	43007	18012	6857	11402	209067

TABLE 18. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT CHARLESTON, 1990.

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Sole, petrale.....	133105	39009	13423	969	3599	4116	14089	28643	21916	13650	44140	196985	513644
Sole, rex.....	9275	12116	3139	38	570	1734	1799	1308	2648	2066	2529	4274	41496
Sole, rock.....	0	0	0	0	2194	161	1089	864	452	0	0	0	4760
Sole, sand.....	0	0	0	0	5681	3855	31022	59970	9717	0	0	0	110245
Sturgeon, green.....	0	0	0	0	150	110	319	91	152	0	0	0	822
Sturgeon, white.....	0	0	0	0	1210	145	55	360	273	0	0	0	2043
Tuna, albacore.....	0	0	0	0	0	0	0	38341	149117	2752	15119	0	205329
Whiting, Pac. (Hake)..	0	0	0	0	0	0	5160	132924	0	0	0	0	138084
Wolf-eel.....	0	0	0	20	55	7	94	12	30	0	0	0	218
Wrymouth.....	0	0	0	0	0	0	0	0	10	0	0	0	10
CRUSTACEANS:													
Crab, box.....	0	0	0	0	0	0	30	0	0	0	0	0	30
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	7695	16457	10648	2117	36917
Crab, Dungeness, Oc...	144405	80255	130689	40091	31387	23996	23339	11491	0	0	0	817749	1303402
Crab, rock.....	0	0	0	0	0	0	0	0	83	180	247	0	510
Shrimp, ghost.....	181	154	170	196	580	547	779	302	295	164	122	132	3622
Shrimp, pink.....	0	0	0	1272250	1782339	2057310	646208	594242	408197	148291	0	0	6908837
MOLLUSKS:													
Clams, butter.....	55	122	160	592	500	465	240	740	305	187	0	7	3373
Clams, cockle.....	0	0	0	0	297	760	100	0	0	0	0	0	1157
Clams, gaper.....	0	0	0	0	0	0	1187	1478	3102	3417	30	152	9366
Clams, littleneck.....	0	0	22	74	50	180	9	86	27	12	0	7	467
Mussels, ocean.....	0	0	210	84	0	0	600	300	0	0	200	0	1394
Octopus.....	0	0	29	0	17	13	0	10	19	0	0	21	109
OTHER INVERTEBRATES:													
Sea urchins, red.....	0	0	0	88619	0	71792	123900	6173	0	0	0	0	290484
TOTAL	2000081	1760472	2715460	2400489	3548178	3806400	3021339	3536125	3477929	1921691	1585481	2042230	31815875

TABLE 19. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT BANDON, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Halibut, Pacific.....	0	0	0	0	0	0	60	57	0	0	0	0	117
Lingcod.....	0	0	0	132	0	38	62	113	0	17	3	0	365
Rockfish, other spp...	0	0	0	408	92	2835	2988	9648	4452	182	93	0	20698
Salmon, chinook.....	0	0	0	0	2873	8907	59315	48374	4082	249	0	0	123800
Salmon, chum.....	0	0	0	0	13	0	0	0	0	0	0	0	13
Salmon, coho.....	0	0	0	0	0	0	11942	518	0	0	0	0	12460
Tuna, albacore.....	0	0	0	0	0	0	0	0	1541	0	0	0	1541
CRUSTACEANS:													
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	0	261	0	0	261
Crab, Dungeness, Oc...	0	1399	1884	2111	5796	3235	1036	59	0	0	0	715	16235
Shrimp, ghost.....	0	0	0	0	0	5	0	17	29	23	15	6	95
Shrimp, pink.....	0	0	0	0	0	0	0	2250	0	0	0	0	2250
TOTAL	0	1399	1884	2651	8774	15020	75403	61036	10104	732	111	721	177835

TABLE 20. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT PORT ORFORD, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabazon.....	0	256	142	219	0	0	256	0	0	0	0	0	873
Flounder, arrowtooth..	0	0	0	0	0	32	0	0	0	10	0	0	42
Flounder, starry.....	0	0	0	0	0	0	6	0	0	0	0	0	6
Hagfish.....	0	0	0	0	0	0	1426	35385	14630	0	25547	39830	116818
Halibut, Pacific.....	0	0	0	0	0	0	321	337	148	0	0	0	806
Lingcod.....	2496	3817	4442	8800	598	2018	1660	5709	16916	1007	652	89	48204
Nominal POP.....	0	0	0	0	0	0	0	0	0	382	0	0	382
Rockfish, widow.....	0	0	0	0	0	0	0	0	1801	1597	1382	3104	7884
Rockfish, yellowtail..	0	0	0	0	0	0	0	0	0	2890	0	0	2890
Rockfish, other spp...	4589	9135	13202	40712	3366	12509	12913	51168	140814	22448	17968	4931	333755
Sablefish.....	0	0	2199	616	11838	48488	214	0	200	42841	17967	0	124363
Salmon, chinook.....	0	0	0	0	2529	2509	80027	25248	4564	17402	0	0	132279
Salmon, chum.....	0	0	0	0	12	0	0	0	0	0	0	0	12
Salmon, coho.....	0	0	0	0	0	0	21754	111	0	0	0	0	21865
Shark, soupfin.....	66	0	0	0	0	0	0	0	37	0	0	0	103
Skates and rays.....	0	25	0	0	0	0	0	0	0	0	0	0	25
Sole, Dover.....	0	0	0	0	240	0	125	0	0	0	0	0	365
Sole, rex.....	0	0	0	0	20	0	0	0	0	0	0	0	20
Tuna, albacore.....	0	0	0	0	0	0	0	0	4073	0	0	0	4073
Wolf-eel.....	0	4	0	0	0	0	0	0	0	0	0	0	4
CRUSTACEANS:													
Crab, Dungeness, Oc...	51986	20170	42308	31460	14849	5989	2714	1096	0	0	0	321310	491882
Shrimp, pink.....	0	0	0	0	46381	34291	31223	22418	20063	1690	0	0	156066
MOLLUSKS:													
Mussels, ocean.....	225	2000	0	0	0	0	0	0	0	0	0	0	2225
Octopus.....	825	142	199	376	0	57	83	60	8	0	0	1397	3147
Scallops, rock.....	0	0	24	0	0	0	0	0	0	0	0	0	24

TABLE 20. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT PORT ORFORD, 1990.

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
OTHER INVERTEBRATES:													
Sea urchins, red.....	444263	563981	608051	705103	544407	346634	154287	245493	220812	252726	389974	439542	4915273
TOTAL	504450	599530	670567	787286	624240	452527	307009	387025	424066	342993	453490	810203	6363386

TABLE 21. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT GOLD BEACH, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Halibut, Pacific.....	0	0	0	0	0	0	41	0	0	0	0	0	41
Lingcod.....	0	362	2364	7921	1286	1668	1265	7444	12239	0	94	184	34827
Rockfish, widow.....	0	0	0	0	0	0	6	0	0	0	0	0	6
Rockfish, other spp...	0	130	768	4755	2077	7346	4000	13901	26285	235	891	130	60518
Sablefish.....	0	0	0	0	0	1368	0	0	0	3718	14082	2402	21570
Salmon, chinook.....	0	0	0	0	70	0	11073	5522	97	0	0	0	16762
Salmon, coho.....	0	0	0	0	0	0	1268	0	0	0	0	0	1268
CRUSTACEANS:													
Crab, Dungeness, Oc...	0	0	0	0	155	253	0	0	0	0	0	0	408
OTHER INVERTEBRATES:													
Sea urchins, red.....	16846	98324	76742	182291	321183	190847	468362	594807	475811	57222	66079	40410	2588924
TOTAL	16846	98816	79874	194967	324771	201482	486015	621674	514432	61175	81146	43126	2724324

TABLE 22. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT BROOKINGS, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabazon.....	0	0	16	0	0	0	0	554	11	0	0	0	581
Cod, Pacific.....	0	0	0	0	0	0	0	0	11	0	0	0	11
Flounder, arrowtooth..	980	920	80	1573	750	1273	5507	5204	8163	5176	2706	2568	34900
Flounder, starry.....	0	0	0	0	0	0	0	80	82	0	43	0	205
Grenadier.....	480	1770	7905	2140	6355	880	4440	17130	5035	8360	2797	2134	59426
Hagfish.....	0	0	0	0	0	0	0	0	6639	780	0	0	7419
Halibut, Pacific.....	0	0	0	0	0	0	72	551	184	0	0	0	807
Lingcod.....	4195	9331	8702	3112	15736	12328	14673	48463	40956	4308	4441	1636	167881
Mackeral.....	0	0	0	0	0	0	0	0	33	0	0	0	33
Nominal POP.....	2700	4115	4309	4692	4184	3447	8832	10231	22349	3540	2840	1191	72430
Rockfish, widow.....	200	0	62230	38950	65890	20463	40435	112163	218479	124608	132278	35905	851601
Rockfish, yellowtail..	95	0	33460	9225	11115	0	278	10424	35429	8375	10415	5945	124761
Rkfish, Sebastolobus...	165865	137210	286145	126100	131355	52522	80820	222994	144914	124145	148236	39525	1659831
Rockfish, other spp...	12490	4890	14862	10020	13333	14995	22516	67348	88325	14644	8945	4437	276805
Sablefish.....	32212	16740	76570	72276	79653	58652	146332	124888	72099	60118	44154	24650	808344
Salmon, chinook.....	0	0	0	0	1072	183	23747	24778	1551	135	0	0	51466
Salmon, coho.....	0	0	0	0	0	0	4443	0	0	0	0	0	4443
Sanddab, Pacific.....	97	243	6	125	115	0	0	320	145	5	64	0	1120
Shark, soupfin.....	0	0	0	0	0	87	0	11	0	0	0	0	98
Shark, thresher.....	0	0	0	0	0	456	0	0	0	0	0	0	456
Sole, Dover.....	70147	20463	88403	79137	59096	32174	113137	209923	168357	93545	32902	40286	1007570
Sole, English.....	415	412	86	310	349	77	1009	8424	8645	3384	1393	422	24926
Sole, petrale.....	28022	5635	567	107	510	163	2120	11765	10867	2410	6291	29893	98350
Sole, rex.....	4720	1087	2500	3161	1375	600	3190	4578	4380	3872	1890	3481	34834
Sole, sand.....	0	0	0	0	0	0	0	1160	32	759	12	0	1963
Surfperch.....	10	792	130	552	6	58	272	354	395	22	0	0	2591
Tuna, albacore.....	0	0	0	0	0	0	0	6236	13184	1482	13378	3036	37316

TABLE 22. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH AT BROOKINGS, 1990.

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
CRUSTACEANS:													
Crab, Dungeness, Oc...	68800	28294	43378	25096	19353	4707	210	635	0	0	0	1213548	1404021
Shrimp, pink.....	0	0	0	843539	534520	932887	351596	352884	119804	45634	0	0	3180864
MOLLUSKS:													
Octopus.....	549	348	214	316	84	281	123	194	329	7	4	4539	6988
OTHER INVERTEBRATES:													
Sea urchins, red.....	4984	8095	25022	8616	0	6954	0	22439	0	0	0	37787	113897
TOTAL	396961	240345	654585	1229047	944851	1143187	823752	1263731	970398	505309	412789	1450983	10035938

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1990.

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:										
Cabazon.....	0	0	0	0	0	0	0	0	0	0
Cod, Pacific.....	0	0	0	0	0	0	0	0	0	0
Flounder, arrowtooth..	2	0	0	0	0	0	0	0	0	0
Flounder, starry.....	3	0	0	0	3840	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
Halibut, Pacific.....	902	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.....	22769	0	0	0	0	0	0	0	0	0
Mackerel.....	22142	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..	237	0	0	0	0	0	0	0	0	0
Rkfish, Sebastolobus...	0	0	0	0	0	0	0	0	0	0
Rockfish, other spp...	122865	0	0	0	0	0	0	0	0	0
Sablefish.....	218	0	0	0	0	0	0	0	0	0
Salmon, chinook.....	2508081	0	0	0	906079	777173	0	10891	0	0
Salmon, chum.....	683	0	0	0	3226	0	0	0	0	0
Salmon, coho.....	728879	0	0	0	309200	2729	0	1100	0	0
Sanddab, Pacific.....	15	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

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1990. (CONT.)

SPECIES	OCEAN TROLL	TUNA BAITBOAT	COASTAL GILLNET	COASTAL SETNET	COL. R. GILLNET	COL. R. SETNET	COL. R. SETLINE	COL. R. DIPNET	COL. R. HOOK&LINE	SMELT TRAWL
Shad, American.....	0	0	47013	2998	447075	0	0	427	0	0
Shark, blue.....	0	0	0	0	0	0	0	0	0	0
Shark, sixgill.....	0	0	0	0	0	0	0	0	0	0
Shark, soupfin.....	147	0	0	0	0	0	0	0	0	0
Shark, spiny dogfish..	18	0	0	0	0	0	0	0	0	0
Shark, thresher.....	32	0	0	0	0	0	0	0	0	0
Shark, other.....	92	0	0	0	0	0	0	0	0	0
Skates and rays.....	79	0	0	0	0	0	0	0	0	0
Smelt.....	0	0	0	0	1068	0	0	0	0	0
Sole, curlfin (turbot)	0	0	0	0	0	0	0	0	0	0
Sole, Dover.....	0	0	0	0	0	0	0	0	0	0
Sole, English.....	0	0	0	0	0	0	0	0	0	0
Sole, flathead.....	0	0	0	0	0	0	0	0	0	0
Sole, petrale.....	47	0	0	0	0	0	0	0	0	0
Sole, rex.....	0	0	0	0	0	0	0	0	0	0
Sole, rock.....	0	0	0	0	0	0	0	0	0	0
Sole, sand.....	0	0	0	0	0	0	0	0	0	0
Steelhead.....	0	0	0	0	0	142872	0	20630	0	0
Sturgeon, green.....	0	0	0	0	4860	0	0	0	0	0
Sturgeon, white.....	0	0	0	0	96547	72494	4481	0	0	0
Surfperch.....	0	0	0	0	0	0	0	0	0	0
Tuna, albacore.....	2079312	0	0	0	0	0	0	0	0	0
Walleye.....	0	0	0	0	0	1268	0	0	0	0
Whiting, Pac. (Hake)..	0	0	0	0	0	0	0	0	0	0
Wolf-eel.....	0	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

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1990. (CONT.)

SPECIES	OCEAN TROLL	TUNA BAITBOAT	COASTAL GILLNET	COASTAL SETNET	COL. R. GILLNET	COL. R. SETNET	COL. R. SETLINE	COL. R. DIPNET	COL. R. HOOK&LINE	SMELT TRAWL
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, Hermit.....	0	0	0	0	0	0	0	0	0	0
Crab, rock.....	0	0	0	0	0	0	0	0	0	0
Crayfish.....	0	0	0	0	0	0	0	0	0	0
Shrimp, brine.....	0	0	0	0	0	0	0	0	0	0
Shrimp, ghost.....	0	0	0	0	0	0	0	0	0	0
Shrimp, mud.....	0	0	0	0	0	0	0	0	0	0
Shrimp, pink.....	0	0	0	0	0	0	0	0	0	0
MOLLUSKS:										
Clams, butter.....	0	0	0	0	0	0	0	0	0	0
Clams, cockle.....	0	0	0	0	0	0	0	0	0	0
Clams, gaper.....	0	0	0	0	0	0	0	0	0	0
Clams, littleneck....	0	0	0	0	0	0	0	0	0	0
Clams, softshell.....	0	0	0	0	0	0	0	0	0	0
Clams, razor.....	0	0	0	0	0	0	0	0	0	0
Mussels, ocean.....	0	0	0	0	0	0	0	0	0	0
Mussels, freshwater...	0	0	0	0	0	0	0	0	0	0
Octopus.....	0	0	0	0	0	0	0	0	0	0
Scallops, rock.....	0	0	0	0	0	0	0	0	0	0
Scallops, weathervane	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
TOTAL	5486523	0	47013	2998	1771895	996536	4481	33048	0	0

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1990. (CONT.)

SPECIES	FISH POT	BOTTOM LONGLINE	PELAGIC LONGLINE	OTHER HOOK&LINE	GROUND FISH TRAWL	MIDWATER TRAWL	SHRIMP TRAWL	SQUID NET	OCEAN GILLNET	SHRIMP POT
FISH:										
Cabezon.....	0	907	0	7570	1340	0	0	0	0	0
Cod, Pacific.....	0	142	0	0	508264	0	1873	0	0	0
Flounder, arrowtooth.	0	588	0	20	3979574	0	20695	0	0	0
Flounder, starry.....	0	8	0	35	233906	0	0	0	0	0
Greenling.....	0	0	0	7	0	0	0	0	0	0
Grenadier.....	0	0	0	0	191831	0	0	0	0	0
Hagfish.....	167453	0	0	0	0	0	0	0	0	0
Halibut, Pacific.....	0	620205	0	348	552	0	226	0	0	0
Herring, Pacific.....	0	0	0	632	0	0	0	0	0	0
Lamprey.....	0	0	0	0	0	0	0	0	0	0
Lingcod.....	0	60433	0	211203	1592080	298	40690	0	0	0
Mackerel.....	0	0	0	119	93	0	325	0	0	0
Pollock, walleye.....	0	0	0	0	31	0	0	0	0	0
Ratfish.....	0	6	0	12	6	0	0	0	0	0
Pac. Oc. Perch.....	0	159	0	0	1081560	1051	1439	0	0	0
Nominal POP.....	665	7152	0	119	2951871	9016	22458	0	0	0
Rockfish, widow.....	0	7654	0	8421	4802126	7396953	11404	0	0	0
Rockfish, yellowtail.	0	15371	0	9987	3412956	156222	416828	0	0	0
Rkfsh, Sebastolobus..	425	3776	0	0	9976147	66	563	0	0	0
Rockfish, other spp..	724	318180	0	733462	5319085	20345	619138	0	0	0
Sablefish.....	1720164	936480	0	2175	5552982	112	18846	0	0	0
Salmon, chinook.....	0	0	0	0	0	0	0	0	0	0
Salmon, chum.....	0	0	0	0	0	0	0	0	0	0
Salmon, coho.....	0	0	0	0	0	0	0	0	0	0
Sanddab, Pacific.....	0	0	0	0	429361	0	240	0	0	0
Irish Lord, Brown....	0	0	0	0	0	0	0	0	0	0
Irish Lord, Red.....	0	0	0	35	0	0	0	0	0	0
Sculpin, Buffalo.....	0	0	0	8	0	0	0	0	0	0

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1990. (CONT.)

SPECIES	FISH	BOTTOM	PELAGIC	OTHER	GROUND FISH	MIDWATER	SHRIMP	SQUID	OCEAN	SHRIMP
	POT	LONGLINE	LONGLINE	HOOK&LINE	TRAWL	TRAWL	TRAWL	NET	GILLNET	POT
Shad, American.....	0	0	0	0	0	0	0	0	0	0
Shark, blue.....	0	56	0	0	0	0	0	0	0	0
Shark, sixgill.....	0	0	0	0	118	0	0	0	0	0
Shark, soupfin.....	0	219	0	154	2649	0	540	0	0	0
Shark, spiny dogfish.	0	0	0	204	15359	0	30	0	0	0
Shark, thresher.....	0	0	0	0	123	0	500	0	0	0
Shark, other.....	0	0	0	0	0	0	0	0	0	0
Skates and rays.....	0	189	0	50	1765	0	29	0	0	0
Smelt.....	0	0	0	0	0	0	40	0	0	0
Sole, curlfin (turbot)	0	0	0	0	574	0	0	0	0	0
Sole, Dover.....	24	81	0	12	16511689	0	41945	0	0	0
Sole, English.....	0	0	0	8	1121179	0	1022	0	0	0
Sole, flathead.....	0	0	0	0	17111	0	0	0	0	0
Sole, petrale.....	0	162	0	2	1638527	250	919	0	0	0
Sole, rex.....	0	0	0	0	499852	122	160	0	0	0
Sole, rock.....	0	0	0	0	4860	0	158	0	0	0
Sole, sand.....	0	0	0	1	467620	5	76	0	0	0
Steelhead.....	0	0	0	0	0	0	0	0	0	0
Sturgeon, green.....	0	0	0	0	4668	0	0	0	0	0
Sturgeon, white.....	0	0	0	0	10786	0	0	0	0	0
Surfperch.....	0	0	0	4953	0	0	0	0	0	0
Tuna, albacore.....	0	0	0	0	0	0	0	0	0	0
Walleye.....	0	0	0	0	0	0	0	0	0	0
Whiting, Pac. (Hake).	0	0	0	0	74906	4983401	34	0	0	0
Wolf-eel.....	0	12	0	240	2321	0	7	0	0	0
Wrymouth.....	0	0	0	0	142	0	0	0	0	0
CRUSTACEANS:										
Barnacle, Gooseneck..	0	0	0	0	0	0	0	0	0	0
Crab, box.....	0	0	0	0	96	0	0	0	0	0

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1990. (CONT.)

SPECIES	FISH POT	BOTTOM LONGLINE	PELAGIC LONGLINE	OTHER HOOK&LINE	GROUND FISH TRAWL	MIDWATER TRAWL	SHRIMP TRAWL	SQUID NET	OCEAN GILLNET	SHRIMP POT
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, Hermit.....	0	0	0	0	0	0	0	0	0	0
Crab, rock.....	0	0	0	0	0	0	0	0	0	0
Crayfish.....	0	0	0	0	0	0	0	0	0	0
Shrimp, brine.....	0	0	0	0	0	0	0	0	0	0
Shrimp, ghost.....	0	0	0	0	0	0	0	0	0	0
Shrimp, mud.....	0	0	0	0	0	0	0	0	0	0
Shrimp, pink.....	0	0	0	0	0	0	31882770	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	182	0	140	5612	0	786	0	0	0
Scallops, rock.....	0	0	0	0	0	0	0	0	0	0
Scallops, weathervane	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
TOTAL	1889455	1971962	0	979917	60413722	12567841	33083741	0	0	0

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1990. (CONT.)

SPECIES	CRAB POT	CRAB RING	CLAM OR RAKE	SHOVEL OR JET	CLAM PUMP OR JET	HAND DEVICE	SCALLOP DREDGE	SANDSHRIMP PUMP	BAITFISH NET	CRAYFISH TRAP	TOTAL ALL GEARS
FISH:											
Cabazon.....	1566	0	0	0	0	0	0	0	0	0	11383
Cod, Pacific.....	0	0	0	0	0	0	0	0	0	0	510279
Flounder, arrowtooth..	0	0	0	0	0	0	0	0	0	0	4000879
Flounder, starry.....	54	0	0	0	0	0	0	0	0	0	237846
Greenling.....	0	0	0	0	0	0	0	0	0	0	7
Grenadier.....	0	0	0	0	0	0	0	0	0	0	191831
Hagfish.....	0	0	0	0	0	0	0	0	0	0	167453
Halibut, Pacific.....	0	0	0	0	0	0	0	0	0	0	622233
Herring, Pacific.....	0	0	0	0	0	0	0	0	475002	0	475634
Lamprey.....	0	0	0	0	0	14203	0	0	0	0	14203
Lingcod.....	141	0	0	0	0	0	0	0	0	0	1927614
Mackerel.....	0	0	0	0	0	0	0	0	0	0	22679
Pollock, walleye.....	0	0	0	0	0	0	0	0	0	0	31
Ratfish.....	0	0	0	0	0	0	0	0	0	0	24
Pac. Oc. Perch.....	0	0	0	0	0	0	0	0	0	0	1084209
Nominal POP.....	0	0	0	0	0	0	0	0	0	0	2991281
Rockfish, widow.....	0	0	0	0	0	0	0	0	0	0	12226558
Rockfish, yellowtail..	0	0	0	0	0	0	0	0	0	0	4011601
Rkfish, Sebastolobus...	0	0	0	0	0	0	0	0	0	0	9980977
Rockfish, other spp...	686	0	0	0	0	0	0	0	0	0	7134485
Sablefish.....	0	0	0	0	0	0	0	0	0	0	8230977
Salmon, chinook.....	0	0	0	0	0	0	0	0	0	0	4202224
Salmon, chum.....	0	0	0	0	0	0	0	0	0	0	3909
Salmon, coho.....	0	0	0	0	0	0	0	0	0	0	1041908
Sanddab, Pacific.....	0	0	0	0	0	0	0	0	0	0	429616
Irish Lord, Brown.....	1	0	0	0	0	0	0	0	0	0	1
Irish Lord, Red.....	0	0	0	0	0	0	0	0	0	0	35
Sculpin, Buffalo.....	0	0	0	0	0	0	0	0	0	0	8

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1990. (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
Shad, American.....	0	0	0	0	0	0	0	0	497513
Shark, blue.....	0	0	0	0	0	0	0	0	56
Shark, sixgill.....	0	0	0	0	0	0	0	0	118
Shark, soupfin.....	0	0	0	0	0	0	0	0	3709
Shark, spiny dogfish..	0	0	0	0	0	0	0	0	15611
Shark, thresher.....	0	0	0	0	0	0	0	0	655
Shark, other.....	0	0	0	0	0	0	0	0	92
Skates and rays.....	0	0	0	0	0	0	0	0	2112
Smelt.....	0	0	0	0	0	0	0	0	1108
Sole, curlfin (turbot)	0	0	0	0	0	0	0	0	574
Sole, Dover.....	6	0	0	0	0	0	0	0	16553757
Sole, English.....	0	0	0	0	0	0	0	0	1122209
Sole, flathead.....	0	0	0	0	0	0	0	0	17111
Sole, petrale.....	0	0	0	0	0	0	0	0	1639907
Sole, rex.....	0	0	0	0	0	0	0	0	500134
Sole, rock.....	0	0	0	0	0	0	0	0	5018
Sole, sand.....	28	0	0	0	0	0	0	0	467730
Steelhead.....	0	0	0	0	0	0	0	0	163502
Sturgeon, green.....	0	0	0	0	0	0	0	0	9528
Sturgeon, white.....	0	0	0	0	0	0	0	0	184308
Surfperch.....	0	0	0	0	0	0	0	0	4953
Tuna, albacore.....	0	0	0	0	0	0	0	0	2079312
Walleye.....	0	0	0	0	0	0	0	0	1268
Whiting, Pac. (Hake)..	0	0	0	0	0	0	0	0	5058341
Wolf-eel.....	414	0	0	0	0	0	0	0	2994
Wrymouth.....	0	0	0	0	0	0	0	0	142
CRUSTACEANS:									
Barnacle, Gooseneck...	0	0	0	0	12	0	0	0	12
Crab, box.....	8490	0	0	0	0	0	0	0	8586

TABLE 23. COMMERCIAL FISH AND SHELLFISH LANDINGS (POUNDS ROUND) BY GEAR IN OREGON, 1990. (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
Crab, Dungeness, Bay..	0	62065	0	0	0	0	0	0	0	62065
Crab, Dungeness, Oc...	9447682	70	0	0	0	0	0	0	0	9447752
Crab, Hermit.....	21	0	0	0	0	0	0	0	0	21
Crab, rock.....	0	4571	0	0	0	0	0	0	0	4571
Crayfish.....	0	0	0	0	0	0	0	0	169909	169909
Shrimp, brine.....	0	0	0	0	39300	0	0	0	0	39300
Shrimp, ghost.....	0	0	0	0	0	0	72778	0	0	72778
Shrimp, mud.....	0	0	0	0	0	0	51911	0	0	51911
Shrimp, pink.....	0	0	0	0	0	0	0	0	0	31882770
MOLLUSKS:										
Clams, butter.....	0	0	1632	0	2972	0	0	0	0	4604
Clams, cockle.....	12	0	4027	0	41568	0	0	0	0	45607
Clams, gaper.....	0	0	490	1038	8863	0	0	0	0	10391
Clams, littleneck.....	0	0	150	0	7371	0	0	0	0	7521
Clams, softshell.....	0	0	4593	0	40	0	0	0	0	4633
Clams, razor.....	0	0	13474	0	0	0	0	0	0	13474
Mussels, ocean.....	0	0	0	0	44445	0	0	0	0	44445
Mussels, freshwater...	0	0	0	0	9946	0	0	0	0	9946
Octopus.....	10252	0	0	0	50	0	0	0	0	17022
Scallops, rock.....	0	0	0	0	24	0	0	0	0	24
Scallops, weathervane	0	0	0	0	0	1781	0	0	0	1781
OTHER INVERTEBRATES:										
Sea urchins, red.....	0	0	0	0	9320868	0	0	0	0	9320868
TOTAL	9469353	66706	24366	1038	9489662	1781	124689	475002	169909	139071638

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1990.

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:										
Cabezon.....	0	0	0	0	0	0	0	0	0	0
Cod, Pacific.....	0	0	0	0	0	0	0	0	0	0
Flounder, arrowtooth..	0	0	0	0	0	0	0	0	0	0
Flounder, starry.....	2	0	0	0	1154	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
Halibut, Pacific.....	1825	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.....	10440	0	0	0	0	0	0	0	0	0
Mackeral.....	3639	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..	65	0	0	0	0	0	0	0	0	0
Rkfish, Sebastolobus...	0	0	0	0	0	0	0	0	0	0
Rockfish, other spp...	51709	0	0	0	0	0	0	0	0	0
Sablefish.....	158	0	0	0	0	0	0	0	0	0
Salmon, chinook.....	5623289	0	0	0	1530511	905504	0	8271	0	0
Salmon, chum.....	778	0	0	0	1967	0	0	0	0	0
Salmon, coho.....	1015320	0	0	0	363270	2219	0	853	0	0
Sanddab, Pacific.....	4	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

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1990. (CONT.)

SPECIES	OCEAN TROLL	TUNA BAITBOAT	COASTAL GILLNET	COASTAL SETNET	COL. R. GILLNET	COL. R. SETNET	COL. R. SETLINE	COL. R. DIPNET	COL. R. HOOK&LINE	SMELT TRAWL
Shad, American.....	0	0	11029	899	75995	0	0	64	0	0
Shark, blue.....	0	0	0	0	0	0	0	0	0	0
Shark, sixgill.....	0	0	0	0	0	0	0	0	0	0
Shark, soupfin.....	134	0	0	0	0	0	0	0	0	0
Shark, spiny dogfish..	2	0	0	0	0	0	0	0	0	0
Shark, thresher.....	24	0	0	0	0	0	0	0	0	0
Shark, other.....	187	0	0	0	0	0	0	0	0	0
Skates and rays.....	25	0	0	0	0	0	0	0	0	0
Smelt.....	0	0	0	0	854	0	0	0	0	0
Sole, curlfin (turbot)	0	0	0	0	0	0	0	0	0	0
Sole, Dover.....	0	0	0	0	0	0	0	0	0	0
Sole, English.....	0	0	0	0	0	0	0	0	0	0
Sole, flathead.....	0	0	0	0	0	0	0	0	0	0
Sole, petrale.....	40	0	0	0	0	0	0	0	0	0
Sole, rex.....	0	0	0	0	0	0	0	0	0	0
Sole, rock.....	0	0	0	0	0	0	0	0	0	0
Sole, sand.....	0	0	0	0	0	0	0	0	0	0
Steelhead.....	0	0	0	0	0	115594	0	17246	0	0
Sturgeon, green.....	0	0	0	0	3650	0	0	0	0	0
Sturgeon, white.....	0	0	0	0	194041	151237	10670	0	0	0
Surfperch.....	0	0	0	0	0	0	0	0	0	0
Tuna, albacore.....	1669613	0	0	0	0	0	0	0	0	0
Walleye.....	0	0	0	0	0	1223	0	0	0	0
Whiting, Pac. (Hake)..	0	0	0	0	0	0	0	0	0	0
Wolf-eel.....	0	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

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1990. (CONT.)

SPECIES	OCEAN TROLL	TUNA BAITBOAT	COASTAL GILLNET	COASTAL SETNET	COL. R. GILLNET	COL. R. SETNET	COL. R. SETLINE	COL. R. DIPNET	COL. R. HOOK&LINE	SMELT TRAWL
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, Hermit.....	0	0	0	0	0	0	0	0	0	0
Crab, rock.....	0	0	0	0	0	0	0	0	0	0
Crayfish.....	0	0	0	0	0	0	0	0	0	0
Shrimp, brine.....	0	0	0	0	0	0	0	0	0	0
Shrimp, ghost.....	0	0	0	0	0	0	0	0	0	0
Shrimp, mud.....	0	0	0	0	0	0	0	0	0	0
Shrimp, pink.....	0	0	0	0	0	0	0	0	0	0
MOLLUSKS:										
Clams, butter.....	0	0	0	0	0	0	0	0	0	0
Clams, cockle.....	0	0	0	0	0	0	0	0	0	0
Clams, gaper.....	0	0	0	0	0	0	0	0	0	0
Clams, littleneck....	0	0	0	0	0	0	0	0	0	0
Clams, softshell.....	0	0	0	0	0	0	0	0	0	0
Clams, razor.....	0	0	0	0	0	0	0	0	0	0
Mussels, ocean.....	0	0	0	0	0	0	0	0	0	0
Mussels, freshwater...	0	0	0	0	0	0	0	0	0	0
Octopus.....	0	0	0	0	0	0	0	0	0	0
Scallops, rock.....	0	0	0	0	0	0	0	0	0	0
Scallops, weathervane	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
TOTAL	8377254	0	11029	899	2171442	1175777	10670	26434	0	0

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1990. (CONT.)

SPECIES	FISH POT	BOTTOM LONGLINE	PELAGIC LONGLINE	OTHER HOOK&LINE	GROUND FISH TRAWL	MIDWATER TRAWL	SHRIMP TRAWL	SQUID NET	OCEAN GILLNET	SHRIMP POT
FISH:										
Cabezon.....	0	322	0	3319	438	0	0	0	0	0
Cod, Pacific.....	0	37	0	0	130308	0	480	0	0	0
Flounder, arrowtooth.	0	60	0	2	411418	0	2078	0	0	0
Flounder, starry.....	0	3	0	13	68015	0	0	0	0	0
Greenling.....	0	0	0	4	0	0	0	0	0	0
Grenadier.....	0	0	0	0	21535	0	0	0	0	0
Hagfish.....	49434	0	0	0	0	0	0	0	0	0
Halibut, Pacific.....	0	911898	0	620	1074	0	391	0	0	0
Herring, Pacific.....	0	0	0	64	0	0	0	0	0	0
Lamprey.....	0	0	0	0	0	0	0	0	0	0
Lingcod.....	0	28792	0	108863	491372	95	12585	0	0	0
Mackeral.....	0	0	0	13	9	0	33	0	0	0
Pollock, walleye.....	0	0	0	0	3	0	0	0	0	0
Ratfish.....	0	3	0	1	3	0	0	0	0	0
Pac. Oc. Perch.....	0	58	0	0	292419	294	377	0	0	0
Nominal POP.....	233	2296	0	59	753860	2009	4777	0	0	0
Rockfish, widow.....	0	3477	0	2821	1236442	1916615	2999	0	0	0
Rockfish, yellowtail.	0	5448	0	3067	940725	42293	112336	0	0	0
Rkfish, Sebastolobus..	163	1944	0	0	3865705	28	151	0	0	0
Rockfish, other spp..	237	161258	0	342224	1454844	5566	161650	0	0	0
Sablefish.....	940837	637551	0	1683	2001073	58	5849	0	0	0
Salmon, chinook.....	0	0	0	0	0	0	0	0	0	0
Salmon, chum.....	0	0	0	0	0	0	0	0	0	0
Salmon, coho.....	0	0	0	0	0	0	0	0	0	0
Sanddab, Pacific.....	0	0	0	0	121063	0	73	0	0	0
Irish Lord, Brown....	0	0	0	0	0	0	0	0	0	0
Irish Lord, Red.....	0	0	0	14	0	0	0	0	0	0
Sculpin, Buffalo.....	0	0	0	1	0	0	0	0	0	0

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1990. (CONT.)

SPECIES	FISH POT	BOTTOM LONGLINE	PELAGIC LONGLINE	OTHER HOOK&LINE	GROUND FISH TRAWL	MIDWATER TRAWL	SHRIMP TRAWL	SQUID NET	OCEAN GILLNET	SHRIMP POT
Shad, American.....	0	0	0	0	0	0	0	0	0	0
Shark, blue.....	0	56	0	0	0	0	0	0	0	0
Shark, sixgill.....	0	0	0	0	89	0	0	0	0	0
Shark, soupfin.....	0	110	0	109	1909	0	454	0	0	0
Shark, spiny dogfish.	0	0	0	75	1952	0	3	0	0	0
Shark, thresher.....	0	0	0	0	109	0	408	0	0	0
Shark, other.....	0	0	0	0	0	0	0	0	0	0
Skates and rays.....	0	18	0	16	570	0	9	0	0	0
Smelt.....	0	0	0	0	0	0	20	0	0	0
Sole, curlfin (turbot)	0	0	0	0	172	0	0	0	0	0
Sole, Dover.....	6	24	0	3	4520407	0	10840	0	0	0
Sole, English.....	0	0	0	2	350096	0	306	0	0	0
Sole, flathead.....	0	0	0	0	5134	0	0	0	0	0
Sole, petrale.....	0	138	0	2	1357280	213	658	0	0	0
Sole, rex.....	0	0	0	0	159137	37	38	0	0	0
Sole, rock.....	0	0	0	0	1467	0	43	0	0	0
Sole, sand.....	0	0	0	1	347073	4	23	0	0	0
Steelhead.....	0	0	0	0	0	0	0	0	0	0
Sturgeon, green.....	0	0	0	0	3181	0	0	0	0	0
Sturgeon, white.....	0	0	0	0	20891	0	0	0	0	0
Surfperch.....	0	0	0	3540	0	0	0	0	0	0
Tuna, albacore.....	0	0	0	0	0	0	0	0	0	0
Walleye.....	0	0	0	0	0	0	0	0	0	0
Whiting, Pac. (Hake).	0	0	0	0	4797	214687	17	0	0	0
Wolf-eel.....	0	5	0	53	693	0	1	0	0	0
Wrymouth.....	0	0	0	0	19	0	0	0	0	0
CRUSTACEANS:										
Barnacle, Gooseneck..	0	0	0	0	0	0	0	0	0	0
Crab, box.....	0	0	0	0	25	0	0	0	0	0

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1990. (CONT.)

SPECIES	FISH POT	BOTTOM LONGLINE	PELAGIC LONGLINE	OTHER HOOK&LINE	GROUND FISH TRAWL	MIDWATER TRAWL	SHRIMP TRAWL	SQUID NET	OCEAN GILLNET	SHRIMP POT
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, Hermit.....	0	0	0	0	0	0	0	0	0	0
Crab, rock.....	0	0	0	0	0	0	0	0	0	0
Crayfish.....	0	0	0	0	0	0	0	0	0	0
Shrimp, brine.....	0	0	0	0	0	0	0	0	0	0
Shrimp, ghost.....	0	0	0	0	0	0	0	0	0	0
Shrimp, mud.....	0	0	0	0	0	0	0	0	0	0
Shrimp, pink.....	0	0	0	0	0	0	15628757	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	98	0	67	3711	0	686	0	0	0
Scallops, rock.....	0	0	0	0	0	0	0	0	0	0
Scallops, weathervane	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
TOTAL	990910	1753596	0	466636	18569018	2181899	15946042	0	0	0

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1990. (CONT.)

SPECIES	CRAB POT	CRAB RING	CLAM OR SHOVEL RAKE	CLAM PUMP OR JET	HAND DEVICE	SCALLOP DREDGE	SANDSHRIMP PUMP	BAITFISH NET	CRAYFISH TRAP	TOTAL ALL GEARS
FISH:										
Cabezon.....	656	0	0	0	0	0	0	0	0	4735
Cod, Pacific.....	0	0	0	0	0	0	0	0	0	130825
Flounder, arrowtooth..	0	0	0	0	0	0	0	0	0	413558
Flounder, starry.....	22	0	0	0	0	0	0	0	0	69209
Greenling.....	0	0	0	0	0	0	0	0	0	4
Grenadier.....	0	0	0	0	0	0	0	0	0	21535
Hagfish.....	0	0	0	0	0	0	0	0	0	49434
Halibut, Pacific.....	0	0	0	0	0	0	0	0	0	915808
Herring, Pacific.....	0	0	0	0	0	0	0	261244	0	261308
Lamprey.....	0	0	0	0	3562	0	0	0	0	3562
Lingcod.....	72	0	0	0	0	0	0	0	0	652219
Mackerel.....	0	0	0	0	0	0	0	0	0	3694
Pollock, walleye.....	0	0	0	0	0	0	0	0	0	3
Ratfish.....	0	0	0	0	0	0	0	0	0	7
Pac. Oc. Perch.....	0	0	0	0	0	0	0	0	0	293148
Nominal POP.....	0	0	0	0	0	0	0	0	0	763234
Rockfish, widow.....	0	0	0	0	0	0	0	0	0	3162354
Rockfish, yellowtail..	0	0	0	0	0	0	0	0	0	1103934
Rkfish, Sebastolobus...	0	0	0	0	0	0	0	0	0	3867991
Rockfish, other spp...	299	0	0	0	0	0	0	0	0	2177787
Sablefish.....	0	0	0	0	0	0	0	0	0	3587209
Salmon, chinook.....	0	0	0	0	0	0	0	0	0	8067575
Salmon, chum.....	0	0	0	0	0	0	0	0	0	2745
Salmon, coho.....	0	0	0	0	0	0	0	0	0	1381662
Sanddab, Pacific.....	0	0	0	0	0	0	0	0	0	121140
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	14
Sculpin, Buffalo.....	0	0	0	0	0	0	0	0	0	1

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1990. (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
Shad, American.....	0	0	0	0	0	0	0	0	0	87987
Shark, blue.....	0	0	0	0	0	0	0	0	0	56
Shark, sixgill.....	0	0	0	0	0	0	0	0	0	89
Shark, soupfin.....	0	0	0	0	0	0	0	0	0	2716
Shark, spiny dogfish..	0	0	0	0	0	0	0	0	0	2032
Shark, thresher.....	0	0	0	0	0	0	0	0	0	541
Shark, other.....	0	0	0	0	0	0	0	0	0	187
Skates and rays.....	0	0	0	0	0	0	0	0	0	638
Smelt.....	0	0	0	0	0	0	0	0	0	874
Sole, curlfin (turbot)	0	0	0	0	0	0	0	0	0	172
Sole, Dover.....	2	0	0	0	0	0	0	0	0	4531282
Sole, English.....	0	0	0	0	0	0	0	0	0	350404
Sole, flathead.....	0	0	0	0	0	0	0	0	0	5134
Sole, petrale.....	0	0	0	0	0	0	0	0	0	1358331
Sole, rex.....	0	0	0	0	0	0	0	0	0	159212
Sole, rock.....	0	0	0	0	0	0	0	0	0	1510
Sole, sand.....	11	0	0	0	0	0	0	0	0	347112
Steelhead.....	0	0	0	0	0	0	0	0	0	132840
Sturgeon, green.....	0	0	0	0	0	0	0	0	0	6831
Sturgeon, white.....	0	0	0	0	0	0	0	0	0	376839
Surfperch.....	0	0	0	0	0	0	0	0	0	3540
Tuna, albacore.....	0	0	0	0	0	0	0	0	0	1669613
Walleye.....	0	0	0	0	0	0	0	0	0	1223
Whiting, Pac. (Hake)..	0	0	0	0	0	0	0	0	0	219501
Wolf-eel.....	194	0	0	0	0	0	0	0	0	946
Wrymouth.....	0	0	0	0	0	0	0	0	0	19
CRUSTACEANS:										
Barnacle, Gooseneck...	0	0	0	0	7	0	0	0	0	7
Crab, box.....	5095	0	0	0	0	0	0	0	0	5120

TABLE 23A. COMMERCIAL FISH AND SHELLFISH ESTIMATED VALUE (\$) BY GEAR IN OREGON, 1990. (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
Crab, Dungeness, Bay..	0	113577	0	0	0	0	0	0	0	113577
Crab, Dungeness, Oc...	14441116	140	0	0	0	0	0	0	0	14441256
Crab, Hermit.....	11	0	0	0	0	0	0	0	0	11
Crab, rock.....	0	4643	0	0	0	0	0	0	0	4643
Crayfish.....	0	0	0	0	0	0	0	0	211411	211411
Shrimp, brine.....	0	0	0	0	62520	0	0	0	0	62520
Shrimp, ghost.....	0	0	0	0	0	0	98412	0	0	98412
Shrimp, mud.....	0	0	0	0	0	0	86745	0	0	86745
Shrimp, pink.....	0	0	0	0	0	0	0	0	0	15628757
MOLLUSKS:										
Clams, butter.....	0	0	691	0	622	0	0	0	0	1313
Clams, cockle.....	7	0	1934	0	22563	0	0	0	0	24504
Clams, gaper.....	0	0	289	275	3519	0	0	0	0	4083
Clams, littleneck....	0	0	239	0	11536	0	0	0	0	11775
Clams, softshell.....	0	0	3313	0	64	0	0	0	0	3377
Clams, razor.....	0	0	39487	0	0	0	0	0	0	39487
Mussels, ocean.....	0	0	0	0	14388	0	0	0	0	14388
Mussels, freshwater...	0	0	0	0	2885	0	0	0	0	2885
Octopus.....	6942	0	0	0	28	0	0	0	0	11532
Scallops, rock.....	0	0	0	0	1	0	0	0	0	1
Scallops, weathervane	0	0	0	0	0	767	0	0	0	767
OTHER INVERTEBRATES:										
Sea urchins, red.....	0	0	0	0	4413286	0	0	0	0	4413286
TOTAL		14454428	118360	45953	275	4534981	767	185157	261244	71494182

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1990.

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<u>TROLL</u>													
FISH:													
Flounder, arrowtooth..	0	0	0	0	0	0	0	2	0	0	0	0	2
Flounder, starry.....	0	0	0	0	0	0	0	3	0	0	0	0	3
Halibut, Pacific.....	0	0	0	0	0	0	251	581	70	0	0	0	902
Lingcod.....	0	0	0	0	1370	3649	3150	8963	5451	186	0	0	22769
Mackerel.....	0	0	0	0	0	2	4294	16674	1172	0	0	0	22142
Rockfish, yellowtail..	0	0	0	0	165	0	28	0	44	0	0	0	237
Rockfish, other spp...	0	0	0	0	7024	10314	24464	47031	29157	4850	25	0	122865
Sablefish.....	0	0	0	0	0	0	32	186	0	0	0	0	218
Salmon, chinook.....	0	0	0	0	167876	380869	1146258	646218	99888	66790	182	0	2508081
Salmon, chum.....	0	0	0	0	197	388	98	0	0	0	0	0	683
Salmon, coho.....	0	0	0	0	0	658	483197	203185	39336	2503	0	0	728879
Sanddab, Pacific.....	0	0	0	0	0	0	1	14	0	0	0	0	15
Shark, soupfin.....	0	0	0	0	0	29	0	86	0	32	0	0	147
Shark, spiny dogfish..	0	0	0	0	0	15	3	0	0	0	0	0	18
Shark, thresher.....	0	0	0	0	0	0	0	0	0	32	0	0	32
Shark, other.....	0	0	0	0	0	0	0	92	0	0	0	0	92
Skates and rays.....	0	0	0	0	0	0	0	79	0	0	0	0	79
Sole, petrale.....	0	0	0	0	6	18	6	14	3	0	0	0	47
Tuna, albacore.....	0	0	0	0	0	0	0	927826	1010221	109732	28497	3036	2079312
TOTAL	0	0	0	0	176638	395942	1661782	1850954	1185342	184125	28704	3036	5486523
<u>COASTAL GILLNET</u>													
FISH:													
Shad, American.....	0	0	0	0	28297	18716	0	0	0	0	0	0	47013
TOTAL	0	0	0	0	28297	18716	0	0	0	0	0	0	47013

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1990. (CONT.)

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<u>COASTAL SETNET</u>													
FISH:													
Shad, American.....	0	0	0	0	666	2332	0	0	0	0	0	0	2998
TOTAL	0	0	0	0	666	2332	0	0	0	0	0	0	2998
<u>COL. R. GILLNET</u>													
FISH:													
Flounder, starry.....	0	675	1202	0	0	0	0	361	1533	69	0	0	3840
Salmon, chinook.....	0	129956	91478	0	0	0	0	151999	439444	93202	0	0	906079
Salmon, chum.....	0	0	0	0	0	0	0	0	11	3215	0	0	3226
Salmon, coho.....	0	0	0	0	0	0	0	1854	191363	115983	0	0	309200
Shad, American.....	0	0	0	0	158687	288388	0	0	0	0	0	0	447075
Smelt.....	1068	0	0	0	0	0	0	0	0	0	0	0	1068
Sturgeon, green.....	0	22	48	0	0	0	0	210	3913	667	0	0	4860
Sturgeon, white.....	0	6640	6358	0	0	0	0	41771	29334	12444	0	0	96547
TOTAL	1068	137293	99086	0	158687	288388	0	196195	665598	225580	0	0	1771895
<u>COL. R. SETNET</u>													
FISH:													
Salmon, chinook.....	0	0	35	0	0	0	0	169880	607219	39	0	0	777173
Salmon, coho.....	0	0	0	0	0	0	0	81	2648	0	0	0	2729
Steelhead.....	0	13498	15778	0	0	0	0	20725	92828	43	0	0	142872
Sturgeon, white.....	0	15466	8703	0	402	0	0	37334	10589	0	0	0	72494
Walleye.....	0	285	384	0	0	0	0	377	222	0	0	0	1268
TOTAL	0	29249	24900	0	402	0	0	228397	713506	82	0	0	996536
<u>COL. R. SETLINE</u>													
FISH:													
Sturgeon, white.....	474	67	83	3836	0	0	0	21	0	0	0	0	4481
TOTAL	474	67	83	3836	0	0	0	21	0	0	0	0	4481

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1990. (CONT.)

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<u>COL. R. DIPNET</u>													
FISH:													
Salmon, chinook.....	0	0	0	0	0	0	0	2660	8231	0	0	0	10891
Salmon, coho.....	0	0	0	0	0	0	0	36	1064	0	0	0	1100
Shad, American.....	0	0	0	0	0	427	0	0	0	0	0	0	427
Steelhead.....	0	0	0	0	0	0	0	9197	11433	0	0	0	20630
TOTAL	0	0	0	0	0	427	0	11893	20728	0	0	0	33048
<u>FISH POT</u>													
FISH:													
Hagfish.....	0	0	0	6236	4517	0	1426	35385	21269	10222	48568	39830	167453
Nominal POP.....	0	0	0	0	0	665	0	0	0	0	0	0	665
Rkfsh, Sebastolobus...	0	0	0	11	133	281	0	0	0	0	0	0	425
Rockfish, other spp...	0	0	0	6	687	31	0	0	0	0	0	0	724
Sablefish.....	0	19346	119215	410335	479674	659116	994	0	0	13069	14082	4333	1720164
Sole, Dover.....	0	0	0	0	24	0	0	0	0	0	0	0	24
TOTAL	0	19346	119215	416588	485035	660093	2420	35385	21269	23291	62650	44163	1889455
<u>BOTTOM LONGLINE</u>													
FISH:													
Cabezon.....	0	300	151	378	0	0	0	0	78	0	0	0	907
Cod, Pacific.....	0	0	0	0	12	122	0	0	0	8	0	0	142
Flounder, arrowtooth..	0	8	27	87	240	174	8	0	40	4	0	0	588
Flounder, starry.....	0	0	0	0	0	2	6	0	0	0	0	0	8
Halibut, Pacific.....	0	0	0	0	124842	208742	69512	115167	101942	0	0	0	620205
Lingcod.....	2344	4221	6180	5735	2373	3112	2782	5480	21912	4953	1315	26	60433
Ratfish.....	0	0	0	0	0	6	0	0	0	0	0	0	6
Pac. Oc. Perch.....	0	0	0	0	5	0	6	20	128	0	0	0	159
Nominal POP.....	0	0	579	0	76	4159	0	59	1727	552	0	0	7152
Rockfish, widow.....	0	0	0	0	90	0	4206	0	1801	1557	0	0	7654
Rockfish, yellowtail..	0	0	0	0	59	257	1790	2260	8258	2747	0	0	15371

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1990. (CONT.)

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Rkfish, Sebastolobus...	0	0	0	106	12	440	0	0	3211	4	0	3	3776
Rockfish, other spp...	3750	9731	19305	27004	24984	41552	23888	39818	106601	20784	433	330	318180
Sablefish.....	1262	14014	64034	116078	228192	352011	7479	3008	58155	61416	28987	1844	936480
Shark, blue.....	0	0	0	0	0	0	0	56	0	0	0	0	56
Shark, soupfin.....	66	50	0	0	0	0	8	0	57	38	0	0	219
Skates and rays.....	0	25	0	0	0	0	164	0	0	0	0	0	189
Sole, Dover.....	0	0	0	0	27	41	0	0	11	0	0	2	81
Sole, petrale.....	0	0	0	0	0	5	7	47	103	0	0	0	162
Wolf-eel.....	0	4	0	8	0	0	0	0	0	0	0	0	12
MOLLUSKS:													
Octopus.....	0	0	0	0	0	0	83	47	52	0	0	0	182
TOTAL	7422	28353	90276	149396	380912	610623	109939	165962	304076	92063	30735	2205	1971962
<u>OTHER HOOK & LINE</u>													
FISH:													
Cabazon.....	0	1977	1949	2045	484	197	43	64	279	198	110	224	7570
Flounder, arrowtooth..	0	0	0	0	0	0	10	0	0	10	0	0	20
Flounder, starry.....	0	0	0	0	0	0	9	3	5	18	0	0	35
Greenling.....	0	0	0	0	0	0	7	0	0	0	0	0	7
Halibut, Pacific.....	0	0	0	0	0	0	134	66	148	0	0	0	348
Herring, Pacific.....	0	0	125	117	387	0	1	2	0	0	0	0	632
Lingcod.....	3034	17305	32353	56364	12895	15035	5111	22233	29583	4715	9508	3067	211203
Mackeral.....	0	0	0	0	0	0	0	63	56	0	0	0	119
Ratfish.....	0	0	0	9	3	0	0	0	0	0	0	0	12
Nominal POP.....	0	0	0	28	0	0	91	0	0	0	0	0	119
Rockfish, widow.....	0	210	445	312	0	0	6	0	48	40	1518	5842	8421
Rockfish, yellowtail..	32	11	1396	2151	141	86	69	174	2900	3012	0	15	9987
Rockfish, other spp...	6749	32670	99235	138863	71714	39789	24178	67053	171137	43426	24745	13903	733462
Sablefish.....	0	0	28	97	0	0	0	0	1546	437	0	67	2175
Irish Lord, Red.....	0	0	2	0	0	6	25	0	0	2	0	0	35
Sculpin, Buffalo.....	0	0	0	0	0	0	1	7	0	0	0	0	8

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1990. (CONT.)

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Shark, soupfin.....	22	0	0	0	0	66	33	0	33	0	0	0	154
Shark, spiny dogfish..	0	0	85	0	0	0	20	0	0	99	0	0	204
Skates and rays.....	0	0	50	0	0	0	0	0	0	0	0	0	50
Sole, Dover.....	0	0	0	0	12	0	0	0	0	0	0	0	12
Sole, English.....	0	0	0	0	0	0	0	0	0	8	0	0	8
Sole, petrale.....	0	0	0	2	0	0	0	0	0	0	0	0	2
Sole, sand.....	0	0	0	0	0	0	0	0	0	1	0	0	1
Surfperch.....	10	792	134	562	260	320	998	888	831	139	19	0	4953
Wolf-eel.....	0	0	0	126	14	40	28	23	9	0	0	0	240
MOLLUSKS:													
Octopus.....	0	0	5	40	0	57	28	0	10	0	0	0	140
TOTAL	9847	52965	135807	200716	85910	55596	30792	90576	206585	52105	35900	23118	979917
GROUND FISH TRAWL													
FISH:													
Cabezon.....	0	0	0	0	0	173	608	548	11	0	0	0	1340
Cod, Pacific.....	15172	4744	23465	32895	49988	88138	93960	116928	58804	15041	3275	5854	508264
Flounder, arrowtooth..	87561	83244	218935	134040	302667	415634	975278	822278	591890	185013	83316	79718	3979574
Flounder, starry.....	77	3955	14828	5443	9870	9201	88392	57463	25048	13094	6523	12	233906
Grenadier.....	480	1887	11398	2140	6355	15966	22585	49435	27398	24367	17136	12684	191831
Halibut, Pacific.....	100	40	172	0	0	0	0	37	0	31	42	130	552
Lingcod.....	113419	75121	76604	27635	72103	138630	190476	287807	338075	110373	51530	110307	1592080
Mackerel.....	0	0	0	0	0	0	0	0	93	0	0	0	93
Pollock, walleye.....	0	0	23	0	0	0	8	0	0	0	0	0	31
Ratfish.....	0	0	0	0	0	0	0	4	2	0	0	0	6
Pac. Oc. Perch.....	97513	82320	157414	60082	73183	88664	90513	117725	149039	67118	45982	52007	1081560
Nominal POP.....	308530	393583	668705	130652	124780	130190	179604	228224	342223	124539	147222	173619	2951871
Rockfish, widow.....	685035	660834	827538	233024	173866	188171	225192	294840	540455	431808	386443	154920	4802126
Rockfish, yellowtail..	292854	292894	594846	287147	388829	311497	296874	171251	199746	286071	186099	104848	3412956
Rkfish, Sebastolobus...	719161	745885	1416727	600062	858610	703766	838758	1265146	1130039	596783	649938	451272	9976147
Rockfish, other spp...	356624	272343	521177	307722	448027	516937	321560	500649	905159	515704	410053	243130	5319085

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1990. (CONT.)

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Sablefish.....	350241	319819	666851	438531	515512	370327	605389	788592	668846	293381	277656	257837	5552982
Sanddab, Pacific.....	8071	21875	27457	13753	30962	20955	17250	59739	117413	49083	35729	27074	429361
Shark, sixgill.....	0	0	0	0	0	88	0	0	0	30	0	0	118
Shark, soupfin.....	178	91	131	0	160	316	365	953	313	0	100	42	2649
Shark, spiny dogfish..	210	660	0	30	0	0	0	5	54	2630	0	11770	15359
Shark, thresher.....	0	0	0	0	0	0	0	66	0	0	57	0	123
Skates and rays.....	75	507	333	0	22	23	59	331	256	93	66	0	1765
Sole, curlfin (turbot)	0	30	0	0	72	24	308	60	80	0	0	0	574
Sole, Dover.....	1279353	1299212	2957038	1834951	1227501	699585	1037773	1669750	1957090	881187	756050	912199	16511689
Sole, English.....	46249	52060	76754	22589	65513	91356	135805	239864	261069	68330	37474	24116	1121179
Sole, flathead.....	0	0	10140	30	0	16	260	0	0	6665	0	0	17111
Sole, petrale.....	374843	154863	107227	31552	38026	55685	97723	153833	106455	38791	88463	391066	1638527
Sole, rex.....	34719	51766	38772	21927	30498	49378	68172	60683	72220	29797	17853	24067	499852
Sole, rock.....	100	0	0	0	2194	161	1089	864	452	0	0	0	4860
Sole, sand.....	777	303	2867	10155	41402	52791	124557	158289	66392	4019	6068	0	467620
Sturgeon, green.....	98	0	58	146	710	815	623	445	470	882	421	0	4668
Sturgeon, white.....	0	0	0	0	1210	145	55	491	273	7108	1504	0	10786
Whiting, Pac. (Hake)..	0	0	0	0	690	0	49352	842	23960	0	0	62	74906
Wolf-eel.....	0	6	50	222	901	317	669	66	64	0	26	0	2321
Wrymouth.....	0	8	24	0	10	20	0	70	10	0	0	0	142
CRUSTACEANS:													
Crab, box.....	0	0	0	0	0	0	30	2	64	0	0	0	96
MOLLUSKS:													
Octopus.....	24	143	457	169	407	1095	885	1162	963	109	118	80	5612
TOTAL	4771464	4518193	8419991	4194897	4464068	3950064	5464172	7048442	7584426	3752047	3209144	3036814	60413722
MIDWATER TRAWL													
FISH:													
Lingcod.....	0	0	52	30	75	0	0	0	0	111	30	0	298

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1990. (CONT.)

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Pac. Oc. Perch.....	0	0	995	0	0	0	0	56	0	0	0	0	1051
Nominal POP.....	5966	40	0	230	0	356	0	600	1824	0	0	0	9016
Rockfish, widow.....	373793	555075	999344	319109	368204	334415	856219	911580	929388	760774	725275	263777	7396953
Rockfish, yellowtail..	2357	1079	13204	5835	8040	20071	69048	17398	10113	6493	2584	0	156222
Rkfish, Sebastolobus...	0	0	0	0	0	0	0	0	0	66	0	0	66
Rockfish, other spp...	101	0	198	354	784	10075	2246	3270	201	2131	140	845	20345
Sablefish.....	0	0	0	0	0	0	0	0	0	112	0	0	112
Sole, petrale.....	0	0	0	0	0	0	0	0	0	250	0	0	250
Sole, rex.....	0	0	0	0	0	0	0	0	0	122	0	0	122
Sole, sand.....	0	0	0	0	0	0	0	0	0	5	0	0	5
Whiting, Pac. (Hake)..	0	0	0	61295	84040	25000	0	498889	1436779	1991640	885758	0	4983401
TOTAL	382217	556194	1013793	386853	461143	389917	927513	1431793	2378305	2761704	1613787	264622	12567841

SHRIMP TRAWL

FISH:

Cod, Pacific.....	0	0	0	1126	8	93	315	173	38	120	0	0	1873
Flounder, arrowtooth..	0	0	0	363	422	2559	6983	5960	3701	707	0	0	20695
Halibut, Pacific.....	0	0	0	0	169	39	18	0	0	0	0	0	226
Lingcod.....	0	0	0	5889	6736	5955	5402	12321	4105	282	0	0	40690
Mackeral.....	0	0	0	0	0	0	0	0	155	170	0	0	325
Pac. Oc. Perch.....	0	0	0	0	0	0	0	1300	97	42	0	0	1439
Nominal POP.....	0	0	0	81	374	5461	3953	6945	4966	678	0	0	22458
Rockfish, widow.....	0	0	0	12	3282	6299	0	1391	387	33	0	0	11404
Rockfish, yellowtail..	0	0	0	88372	93349	77912	85027	57713	12359	2096	0	0	416828
Rkfish, Sebastolobus...	0	0	0	0	5	92	192	200	74	0	0	0	563
Rockfish, other spp...	0	0	0	68643	150407	107987	93497	90446	78416	29742	0	0	619138
Sablefish.....	0	0	0	66	315	4655	6533	2963	3417	897	0	0	18846
Sanddab, Pacific.....	0	0	0	125	115	0	0	0	0	0	0	0	240
Shark, soupfin.....	0	0	0	20	11	95	30	232	63	89	0	0	540
Shark, spiny dogfish..	0	0	0	0	0	30	0	0	0	0	0	0	30
Shark, thresher.....	0	0	0	0	0	456	0	0	44	0	0	0	500

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1990. (CONT.)

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Skates and rays.....	0	0	0	0	0	0	0	29	0	0	0	0	29
Smelt.....	0	0	0	0	0	0	40	0	0	0	0	0	40
Sole, Dover.....	0	0	0	1104	2671	9455	8196	8085	9928	2506	0	0	41945
Sole, English.....	0	0	0	71	171	104	355	219	102	0	0	0	1022
Sole, petrale.....	0	0	0	64	108	151	94	286	173	43	0	0	919
Sole, rex.....	0	0	0	59	22	10	0	0	22	47	0	0	160
Sole, rock.....	0	0	0	0	158	0	0	0	0	0	0	0	158
Sole, sand.....	0	0	0	0	0	0	0	0	0	76	0	0	76
Whiting, Pac. (Hake)..	0	0	0	0	0	0	34	0	0	0	0	0	34
Wolf-eel.....	0	0	0	0	0	7	0	0	0	0	0	0	7
CRUSTACEANS:													
Shrimp, pink.....	0	0	0	6010913	7585890	7548026	4011721	3466312	2360400	899508	0	0	31882770
MOLLUSKS:													
Octopus.....	0	0	0	129	49	366	52	94	96	0	0	0	786
TOTAL	0	0	0	6177037	7844262	7769752	4222442	3654669	2478543	937036	0	0	33083741
CRAB POT													
FISH:													
Cabezon.....	154	17	43	377	380	179	324	92	0	0	0	0	1566
Flounder, starry.....	0	0	9	40	0	3	0	0	0	0	0	2	54
Lingcod.....	5	15	58	7	22	10	0	0	0	0	0	24	141
Rockfish, other spp...	31	226	166	64	65	44	4	37	0	0	0	49	686
Irish Lord, Brown.....	0	0	1	0	0	0	0	0	0	0	0	0	1
Sole, Dover.....	0	0	6	0	0	0	0	0	0	0	0	0	6
Sole, sand.....	0	0	22	0	0	0	0	0	0	0	0	6	28
Wolf-eel.....	0	23	91	20	103	75	92	0	0	0	0	10	414
CRUSTACEANS:													
Crab, box.....	0	0	6467	2023	0	0	0	0	0	0	0	0	8490
Crab, Dungeness, Oc...	1558572	669696	665273	301878	261784	177542	221884	142666	0	0	0	5448387	9447682

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1990. (CONT.)

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Crab, Hermit.....	0	0	11	2	8	0	0	0	0	0	0	0	21
MOLLUSKS:													
Clams, cockle.....	0	0	0	0	0	0	0	0	0	0	0	12	12
Octopus.....	1404	538	630	653	186	306	55	13	0	0	0	6467	10252
TOTAL	1560166	670515	672777	305064	262548	178159	222359	142808	0	0	0	5454957	9469353
CRAB RING													
CRUSTACEANS:													
Crab, Dungeness, Bay..	0	0	0	0	0	0	55	0	12530	32257	15106	2117	62065
Crab, Dungeness, Oc...	0	0	0	0	0	0	50	20	0	0	0	0	70
Crab, rock.....	0	49	470	139	175	359	116	214	296	1688	590	475	4571
TOTAL	0	49	470	139	175	359	221	234	12826	33945	15696	2592	66706
CLAM SHOVEL OR RAKE													
MOLLUSKS:													
Clams, butter.....	55	122	155	274	481	90	455	0	0	0	0	0	1632
Clams, cockle.....	0	0	150	565	1162	1460	690	0	0	0	0	0	4027
Clams, gaper.....	0	0	0	0	0	0	100	100	25	115	30	120	490
Clams, littleneck.....	0	0	12	10	60	38	30	0	0	0	0	0	150
Clams, softshell.....	25	205	428	100	150	275	708	798	768	196	314	626	4593
Clams, razor.....	54	419	2120	2399	3623	1929	211	0	475	421	1304	519	13474
TOTAL	134	746	2865	3348	5476	3792	2194	898	1268	732	1648	1265	24366
CLAM PUMP OR JET													
MOLLUSKS:													
Clams, gaper.....	0	0	0	0	0	0	0	888	0	150	0	0	1038
TOTAL	0	0	0	0	0	0	0	888	0	150	0	0	1038

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1990. (CONT.)

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<u>HAND DEVICE</u>													
FISH:													
Lamprey.....	0	0	0	0	0	9282	4921	0	0	0	0	0	14203
CRUSTACEANS:													
Barnacle, Gooseneck...	0	0	0	0	0	12	0	0	0	0	0	0	12
Shrimp, brine.....	0	0	0	0	9500	10600	11000	8200	0	0	0	0	39300
MOLLUSKS:													
Clams, butter.....	0	0	160	433	395	465	240	740	305	187	40	7	2972
Clams, cockle.....	5100	1000	7043	993	10542	2610	2900	300	2440	0	6240	2400	41568
Clams, gaper.....	0	0	0	0	0	0	1112	790	3077	3302	550	32	8863
Clams, littleneck.....	0	0	60	588	684	746	540	1590	1716	1115	266	66	7371
Clams, softshell.....	0	0	0	0	0	0	0	40	0	0	0	0	40
Mussels, ocean.....	6468	8731	5525	4231	9483	2511	1600	2005	801	1160	1650	280	44445
Mussels, freshwater...	0	0	0	0	0	0	0	0	9946	0	0	0	9946
Octopus.....	0	0	0	0	0	0	50	0	0	0	0	0	50
Scallops, rock.....	0	0	24	0	0	0	0	0	0	0	0	0	24
OTHER INVERTEBRATES:													
Sea urchins, red.....	466093	670400	730458	1022304	1011638	1399457	1077238	922170	737370	309948	456053	517739	9320868
TOTAL	477661	680131	743270	1028549	1042242	1425683	1099601	935835	755655	315712	464799	520524	9489662
<u>SCALLOP DREDGE</u>													
MOLLUSKS:													
Scallops, weathervane	0	1781	0	0	0	0	0	0	0	0	0	0	1781
TOTAL	0	1781	0	0	0	0	0	0	0	0	0	0	1781
<u>BAITSHRIMP PUMP</u>													
CRUSTACEANS:													
Shrimp, ghost.....	1601	1418	3736	4702	9899	11315	7841	7368	8618	10468	3415	2397	72778
Shrimp, mud.....	5869	4858	6032	9154	4407	3128	1215	1816	2121	2469	7598	3244	51911

TABLE 24. MONTHLY LANDINGS (POUNDS ROUND) OF COMMERCIAL FISH AND SHELLFISH BY GEAR IN OREGON, 1990. (CONT.)

GEAR/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
TOTAL	7470	6276	9768	13856	14306	14443	9056	9184	10739	12937	11013	5641	124689
<u>BAITFISH NET</u>													
FISH:													
Herring, Pacific.....	0	473952	0	0	0	0	600	450	0	0	0	0	475002
TOTAL	0	473952	0	0	0	0	600	450	0	0	0	0	475002
<u>CRAYFISH TRAP</u>													
CRUSTACEANS:													
Crayfish.....	0	0	0	6746	13760	28286	54940	35241	19884	11052	0	0	169909
TOTAL	0	0	0	6746	13760	28286	54940	35241	19884	11052	0	0	169909
TOTAL	7217923	7175110	11332301	12887025	15424527	15792572	13808031	15839825	16358750	8402561	5474076	9358937	139071638

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, 1990

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:															
Cabezon.....	0	29	193	0	604	2910	0	0	668	0	210	0	121	0	4735
Cod, Pacific.....	0	119494	4975	0	0	5038	0	0	1315	0	0	0	3	0	130825
Flounder, arrowtooth..	0	351967	14713	0	0	28837	0	0	14323	0	6	0	3712	0	413558
Flounder, starry.....	1154	57074	1886	0	0	4534	0	22	4480	0	2	0	57	0	69209
Greenling.....	0	2	0	0	0	2	0	0	0	0	0	0	0	0	4
Grenadier.....	0	0	0	0	0	173	0	0	13446	0	0	0	7916	0	21535
Hagfish.....	0	430	0	0	0	2796	0	0	8767	0	35070	0	2371	0	49434
Halibut, Pacific.....	0	724906	2585	264	391	169430	3265	4802	6550	253	1496	83	1783	0	915808
Herring, Pacific.....	0	0	0	0	0	260732	0	576	0	0	0	0	0	0	261308
Lamprey.....	0	0	0	0	0	0	0	0	0	0	0	0	0	3562	3562
Lingcod.....	0	241833	27819	10652	2055	134772	51	4255	126926	200	22328	17475	63853	0	652219
Mackerel.....	0	235	2627	263	0	438	17	0	24	0	0	0	33	57	3694
Pollock, walleye.....	0	2	0	0	0	0	0	0	1	0	0	0	0	0	3
Ratfish.....	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Pac. Oc. Perch.....	0	220894	4698	0	0	60220	0	31	7305	0	0	0	0	0	293148
Nominal POP.....	0	80267	88502	0	0	463986	0	0	112076	0	102	0	18301	0	763234
Rockfish, widow.....	0	960544	81934	0	0	1463376	0	0	435039	0	2649	4	218808	0	3162354
Rockfish, yellowtail..	0	730402	42830	0	0	133627	0	0	161551	0	866	0	34658	0	1103934
Rkfish, Sebastolobus...	0	473689	19178	0	0	365880	0	0	2367485	0	0	0	641759	0	3867991
Rockfish, other spp...	0	837560	83760	19385	1632	404117	262	5573	540866	8604	147240	30426	98181	181	2177787
Sablefish.....	0	854290	99392	0	0	890212	214009	26628	1073747	0	77930	14182	336819	0	3587209
Salmon, chinook.....	2444286	70514	299166	74837	22538	983429	212662	547396	2648207	274272	312166	40052	125269	12781	8067575
Salmon, chum.....	1967	0	2	15	154	174	21	82	300	18	12	0	0	0	2745
Salmon, coho.....	366342	89898	233359	171582	1749	110862	33404	73985	212221	18990	33659	2040	6864	26707	1381662
Sanddab, Pacific.....	0	34213	1621	0	0	40472	4	0	44526	0	0	0	304	0	121140
Irish Lord, Brown.....	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Irish Lord, Red.....	0	10	0	0	0	4	0	0	0	0	0	0	0	0	14
Sculpin, Buffalo.....	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1

TABLE 42. ESTIMATED VALUE (\$), AT THE FISHERMEN'S LEVEL, OF COMMERCIAL FISH AND SHELLFISH LANDINGS BY PORT IN OREGON, 1990(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
Shad, American.....	76059	0	0	0	0	0	899	11029	0	0	0	0	0	0	87987
Shark, blue.....	0	0	0	0	0	56	0	0	0	0	0	0	0	0	56
Shark, sixgill.....	0	0	0	0	0	23	0	0	66	0	0	0	0	0	89
Shark, soupfin.....	0	1452	127	42	0	547	0	0	402	0	48	0	98	0	2716
Shark, spiny dogfish..	0	1946	0	0	0	86	0	0	0	0	0	0	0	0	2032
Shark, thresher.....	0	66	24	0	0	9	0	0	43	0	0	0	399	0	541
Shark, other.....	0	0	0	0	0	168	0	0	19	0	0	0	0	0	187
Skates and rays.....	0	21	25	0	0	574	16	0	0	0	2	0	0	0	638
Smelt.....	854	0	0	0	0	0	0	0	20	0	0	0	0	0	874
Sole, curlfin (turbot)	0	9	0	0	0	5	0	0	158	0	0	0	0	0	172
Sole, Dover.....	0	1793630	195232	0	0	556968	0	544	1715248	0	73	0	269587	0	4531282
Sole, English.....	0	185358	4407	0	0	88503	0	141	63474	0	0	0	8521	0	350404
Sole, flathead.....	0	5134	0	0	0	0	0	0	0	0	0	0	0	0	5134
Sole, petrale.....	0	548972	78303	0	0	245808	0	54	411602	0	0	0	73592	0	1358331
Sole, rex.....	0	104795	5438	0	0	25026	0	13	12418	0	4	0	11518	0	159212
Sole, rock.....	0	43	0	0	0	38	0	0	1429	0	0	0	0	0	1510
Sole, sand.....	0	154976	31070	0	0	76225	0	658	82711	0	0	0	1472	0	347112
Steelhead.....	132840	0	0	0	0	0	0	0	0	0	0	0	0	0	132840
Sturgeon, green.....	3650	1245	120	0	0	862	0	0	954	0	0	0	0	0	6831
Sturgeon, white.....	355948	18104	229	0	0	0	0	0	2558	0	0	0	0	0	376839
Surfperch.....	0	0	0	0	5	1177	0	0	0	0	0	0	2358	0	3540
Tuna, albacore.....	0	568033	15697	1018	0	750576	19411	92201	183833	1541	3580	0	33723	0	1669613
Walleye.....	1223	0	0	0	0	0	0	0	0	0	0	0	0	0	1223
Whiting, Pac. (Hake)..	0	4484	0	0	0	208577	0	0	6440	0	0	0	0	0	219501
Wolf-eel.....	0	342	99	10	0	309	0	0	185	0	1	0	0	0	946
Wrymouth.....	0	18	0	0	0	0	0	0	1	0	0	0	0	0	19
CRUSTACEANS:															
Barnacle, Gooseneck...	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7
Crab, box.....	0	0	0	0	0	5112	0	0	8	0	0	0	0	0	5120

TABLE 42. ESTIMATED VALUE (\$), AT THE FISHERMEN'S LEVEL, OF COMMERCIAL FISH AND SHELLFISH LANDINGS BY PORT IN OREGON, 1990(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
Crab, Dungeness, Bay..	0	0	0	0	0	1290	0	13332	64231	457	0	0	0	34267	113577
Crab, Dungeness, Oc...	0	4545270	476147	1344	73013	2994847	376789	928852	2084169	29663	775882	766	2154514	0	14441256
Crab, Hermit.....	0	0	0	0	0	11	0	0	0	0	0	0	0	0	11
Crab, rock.....	0	0	0	0	0	4061	0	0	582	0	0	0	0	0	4643
Crayfish.....	0	0	0	0	0	0	0	0	0	0	0	0	0	211411	211411
Shrimp, brine.....	0	0	0	0	0	0	0	0	0	0	0	0	0	62520	62520
Shrimp, ghost.....	0	0	8112	10452	0	0	103	0	10130	266	0	0	0	69349	98412
Shrimp, mud.....	0	0	9477	0	0	0	0	0	0	0	0	0	0	77268	86745
Shrimp, pink.....	0	4509823	1390207	0	0	4677354	0	76412	3358416	1125	77995	0	1537425	0	15628757
MOLLUSKS:															
Clams, butter.....	0	0	638	0	0	0	0	0	675	0	0	0	0	0	1313
Clams, cockle.....	0	0	24049	0	5	0	0	7	289	0	0	0	0	154	24504
Clams, gaper.....	0	0	368	0	0	158	0	0	3557	0	0	0	0	0	4083
Clams, littleneck.....	0	0	2043	0	0	0	0	0	188	0	0	0	0	9544	11775
Clams, softshell.....	0	0	33	0	0	274	0	3002	0	0	0	0	0	68	3377
Clams, razor.....	0	0	0	0	0	0	0	0	0	0	0	0	0	39487	39487
Mussels, ocean.....	0	0	0	1900	111	108	420	8334	290	0	2225	0	0	1000	14388
Mussels, freshwater...	0	0	0	0	0	0	0	0	0	0	0	0	0	2885	2885
Octopus.....	0	2606	35	0	28	1409	41	0	79	0	1259	0	6075	0	11532
Scallops, rock.....	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Scallops, weathervane	0	0	0	0	0	767	0	0	0	0	0	0	0	0	767
OTHER INVERTEBRATES:															
Sea urchins, red.....	0	0	8774	8733	373647	66197	0	0	145246	0	2648520	1128548	33621	0	4413286
TOTAL	3384323	18294580	3259894	300497	475939	15233155	861374	1797929	15929244	335389	4143326	1233576	5693715	551241	71494182

1/ OREGON LANDINGS ONLY

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

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

TABLE 43. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS IN OREGON, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	80	1068	806	1109	406	235	379	187	160	89	88	128	4735
Cod, Pacific.....	3849	1211	6028	8741	12757	22728	23942	29799	15137	4098	876	1659	130825
Flounder, arrowtooth..	8703	8230	20597	13457	30526	40963	100208	86582	63650	21656	9810	9176	413558
Flounder, starry.....	23	635	4804	1612	2835	2655	26026	17044	7757	3920	1894	4	69209
Greenling.....	0	0	0	0	0	0	4	0	0	0	0	0	4
Grenadier.....	48	196	1361	299	890	1662	2476	5629	2919	2769	1811	1475	21535
Hagfish.....	0	0	0	1871	1355	0	428	10639	6514	2795	13882	11950	49434
Halibut, Pacific.....	190	60	338	0	115142	241661	138723	214435	204855	43	87	274	915808
Herring, Pacific.....	0	260668	13	12	39	0	329	247	0	0	0	0	261308
Lamprey.....	0	0	0	0	0	2444	1118	0	0	0	0	0	3562
Lingcod.....	37844	33214	43709	43622	32792	55167	66651	111317	131427	38529	22438	35509	652219
Mackerel.....	0	0	0	0	0	1	926	2503	247	17	0	0	3694
Pollock, walleye.....	0	0	2	0	0	0	1	0	0	0	0	0	3
Ratfish.....	0	0	0	1	0	3	0	2	1	0	0	0	7
Pac. Oc. Perch.....	25803	22008	42305	16171	19604	23730	24181	31883	39740	19146	13407	15170	293148
Nominal POP.....	78578	99573	171201	31938	30181	35250	45661	57873	89515	34334	40790	48340	763234
Rockfish, widow.....	270065	310269	466194	141228	137191	134524	279045	307528	373400	323149	303392	116369	3162354
Rockfish, yellowtail..	78602	78337	162547	103303	132472	110671	122352	67380	64797	87188	65773	30512	1103934
Rkfsh, Sebastolobus...	264695	276317	525654	228309	329812	270488	322820	487973	447763	250368	274471	189321	3867991
Rockfish, other spp...	99441	92219	194262	178097	208547	211266	147229	233241	411563	191185	132367	78370	2177787
Sablefish.....	112206	125367	312363	434718	596654	731678	237079	297725	321770	171295	137875	108479	3587209
Salmon, chinook.....	0	455836	290617	0	369106	869489	2534225	1755269	1505327	287202	504	0	8067575
Salmon, chum.....	0	0	0	0	200	492	86	0	6	1961	0	0	2745
Salmon, coho.....	0	0	0	0	0	860	686348	272748	273542	148164	0	0	1381662
Sanddab, Pacific.....	2014	5387	6744	3848	9016	6030	4883	16820	33738	14017	10521	8122	121140
Irish Lord, Brown.....	0	0	1	0	0	0	0	0	0	0	0	0	1
Irish Lord, Red.....	0	0	1	0	0	2	10	0	0	1	0	0	14
Sculpin, Buffalo.....	0	0	0	0	0	0	0	1	0	0	0	0	1
Shad, American.....	0	0	0	0	35560	52427	0	0	0	0	0	0	87987

TABLE 43. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS IN OREGON, 1990. (CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Shark, blue.....	0	0	0	0	0	0	0	56	0	0	0	0	56
Shark, sixgill.....	0	0	0	0	0	66	0	0	0	23	0	0	89
Shark, soupfin.....	195	122	171	28	170	369	371	793	244	111	100	42	2716
Shark, spiny dogfish..	117	368	57	17	0	5	3	1	8	278	0	1178	2032
Shark, thresher.....	0	0	0	0	0	399	0	66	9	24	43	0	541
Shark, other.....	0	0	0	0	0	0	0	187	0	0	0	0	187
Skates and rays.....	24	164	123	0	7	7	35	146	82	29	21	0	638
Smelt.....	854	0	0	0	0	0	20	0	0	0	0	0	874
Sole, curlfin (turbot)	0	9	0	0	22	7	92	18	24	0	0	0	172
Sole, Dover.....	342721	351233	786442	505242	336207	193096	283270	456940	535041	255634	220135	265321	4531282
Sole, English.....	15817	16611	24929	7093	19959	28516	41625	74310	79968	21850	12006	7720	350404
Sole, flathead.....	0	0	3042	9	0	5	78	0	0	2000	0	0	5134
Sole, petrale.....	310146	130277	90930	26832	32299	47264	82532	127633	88682	32095	72628	317013	1358331
Sole, rex.....	11505	16180	12949	7172	9644	15697	21373	19435	23149	9248	5470	7390	159212
Sole, rock.....	38	0	0	0	701	48	327	260	136	0	0	0	1510
Sole, sand.....	583	227	2160	7471	30798	39274	91312	117979	49700	3048	4555	5	347112
Steelhead.....	0	9400	8557	0	0	0	0	23604	91257	22	0	0	132840
Sturgeon, green.....	49	18	58	73	440	524	542	407	3390	1119	211	0	6831
Sturgeon, white.....	1200	47653	32312	9061	2117	182	69	159376	81531	40180	3158	0	376839
Surfperch.....	9	604	117	530	131	189	635	621	613	81	10	0	3540
Tuna, albacore.....	0	0	0	0	0	0	0	678426	870682	94846	23230	2429	1669613
Walleye.....	0	307	469	0	0	0	0	283	164	0	0	0	1223
Whiting, Pac. (Hake)..	0	0	0	4904	5509	2500	3421	23969	67718	78128	33347	5	219501
Wolf-eel.....	0	11	41	118	337	111	272	33	16	0	4	3	946
Wrymouth.....	0	1	3	0	1	3	0	10	1	0	0	0	19
CRUSTACEANS:													
Barnacle, Gooseneck...	0	0	0	0	0	7	0	0	0	0	0	0	7
Crab, box.....	0	0	3881	1214	0	0	8	1	16	0	0	0	5120
Crab, Dungeness, Bay..	0	0	0	0	0	0	73	0	22401	59691	27991	3421	113577
Crab, Dungeness, Oc...	2071438	1005777	1105375	529137	478985	332618	429084	270079	0	0	0	8218763	14441256

TABLE 43. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS IN OREGON, 1990. (CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Crab, Hermit.....	0	0	6	1	4	0	0	0	0	0	0	0	11
Crab, rock.....	0	49	470	139	175	359	116	214	345	1773	528	475	4643
Crayfish.....	0	0	0	9109	18541	35343	68239	42545	24223	13411	0	0	211411
Shrimp, brine.....	0	0	0	0	15200	16960	17240	13120	0	0	0	0	62520
Shrimp, ghost.....	2684	2455	5471	6742	15139	15941	11577	10437	9219	10615	4406	3726	98412
Shrimp, mud.....	9807	8118	10080	15296	7364	5227	2030	3035	3544	4126	12697	5421	86745
Shrimp, pink.....	0	0	0	2712552	3403241	3620602	2006911	1930408	1415274	539769	0	0	15628757
MOLLUSKS:													
Clams, butter.....	11	24	112	178	293	139	283	148	61	37	26	1	1313
Clams, cockle.....	2295	550	3964	808	6768	2045	1539	120	1464	0	3744	1207	24504
Clams, gaper.....	0	0	0	0	0	0	278	440	1231	1680	376	78	4083
Clams, littleneck.....	0	0	75	826	1107	1052	897	2442	2914	1907	453	102	11775
Clams, softshell.....	4	52	108	64	106	194	358	587	768	196	314	626	3377
Clams, razor.....	153	1175	6056	7098	10865	5459	571	0	1386	1263	3906	1555	39487
Mussels, ocean.....	1748	3639	1287	1029	2366	1084	366	709	184	351	1317	308	14388
Mussels, freshwater...	0	0	0	0	0	0	0	0	2885	0	0	0	2885
Octopus.....	635	329	529	524	420	1297	730	904	801	85	85	5193	11532
Scallops, rock.....	0	0	1	0	0	0	0	0	0	0	0	0	1
Scallops, weathervane	0	767	0	0	0	0	0	0	0	0	0	0	767
OTHER INVERTEBRATES:													
Sea urchins, red.....	250733	395378	376236	494388	403400	498012	445109	373300	295873	127067	270212	483578	4413286
TOTAL	4004907	3762093	4725558	5555991	6867401	7679027	8276516	8339867	7668832	2902613	1730959	9980418	71494182

TABLE 44. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS FROM THE COLUMBIA RIVER, 1990. 1/

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
<u>BELOW BONNEVILLE DAM</u>													
FISH:													
Flounder, starry.....	0	200	354	0	0	0	0	111	468	21	0	0	1154
Salmon, chinook.....	0	455836	290512	0	0	0	0	160017	521336	102810	0	0	1530511
Salmon, chum.....	0	0	0	0	0	0	0	0	6	1961	0	0	1967
Salmon, coho.....	0	0	0	0	0	0	0	1892	216691	144687	0	0	363270
Shad, American.....	0	0	0	0	28756	47239	0	0	0	0	0	0	75995
Smelt.....	854	0	0	0	0	0	0	0	0	0	0	0	854
Sturgeon, green.....	0	18	26	0	0	0	0	95	3010	501	0	0	3650
Sturgeon, white.....	0	13051	12673	0	0	0	0	83865	59190	25262	0	0	194041
TOTAL	854	469105	303565	0	28756	47239	0	245980	800701	275242	0	0	2171442
<u>ABOVE BONNEVILLE DAM</u>													
FISH:													
Salmon, chinook.....	0	0	105	0	0	0	0	177392	736247	31	0	0	913775
Salmon, coho.....	0	0	0	0	0	0	0	92	2980	0	0	0	3072
Shad, American.....	0	0	0	0	0	64	0	0	0	0	0	0	64
Steelhead.....	0	9400	8557	0	0	0	0	23604	91257	22	0	0	132840
Sturgeon, white.....	1200	34602	19639	9061	603	0	0	74803	21999	0	0	0	161907
Walleye.....	0	307	469	0	0	0	0	283	164	0	0	0	1223
TOTAL	1200	44309	28770	9061	603	64	0	276174	852647	53	0	0	1212881
TOTAL	2054	513414	332335	9061	29359	47303	0	522154	1653348	275295	0	0	3384323

1/ OREGON LANDINGS ONLY

TABLE 45. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT ASTORIA, 1990. 1/ 2/

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	0	0	0	0	0	0	10	19	0	0	0	0	29
Cod, Pacific.....	3395	1056	5652	8051	12023	21935	21499	27606	12862	3307	786	1322	119494
Flounder, arrowtooth..	5230	6385	14546	9545	26946	33467	93729	77713	51486	17825	7828	7267	351967
Flounder, starry.....	0	398	4362	1213	1534	1551	24056	13317	5791	3620	1232	0	57074
Greenling.....	0	0	0	0	0	0	2	0	0	0	0	0	2
Hagfish.....	0	0	0	143	287	0	0	0	0	0	0	0	430
Halibut, Pacific.....	0	0	0	0	104833	225708	0	204127	190238	0	0	0	724906
Lingcod.....	12192	9596	7731	4847	12839	24221	23275	44253	58898	16803	3950	23228	241833
Mackeral.....	0	0	0	0	0	0	0	166	69	0	0	0	235
Pollock, walleye.....	0	0	2	0	0	0	0	0	0	0	0	0	2
Pac. Oc. Perch.....	16317	11930	21240	11455	18586	19979	22007	27619	31475	17305	11088	11893	220894
Nominal POP.....	4218	5894	7740	6181	7951	4908	8063	9688	13041	6309	3441	2833	80267
Rockfish, widow.....	71168	75029	126116	48733	69013	77508	100932	121867	105824	87858	49823	26673	960544
Rockfish, yellowtail..	42583	47069	96542	82041	115402	105402	107497	56301	32339	23550	10421	11255	730402
Rkfish, Sebastolobus...	24814	16499	54038	63282	34675	9632	40754	68949	65819	34727	35496	25004	473689
Rockfish, other spp...	60103	46701	80234	72164	88823	109973	66579	80422	112554	45848	37216	36943	837560
Sablefish.....	36077	40504	71629	72402	117707	173784	50116	73112	137928	26059	27884	27088	854290
Salmon, chinook.....	0	0	0	0	17605	3403	632	17317	29014	2543	0	0	70514
Salmon, coho.....	0	0	0	0	0	0	156	43023	43258	3461	0	0	89898
Sanddab, Pacific.....	256	2678	2754	3515	4111	2208	2381	5472	7666	1519	1513	140	34213
Irish Lord, Red.....	0	0	0	0	0	0	10	0	0	0	0	0	10
Shark, soupfin.....	148	0	48	28	73	95	287	631	142	0	0	0	1452
Shark, spiny dogfish..	117	368	0	17	0	3	0	0	0	263	0	1178	1946
Shark, thresher.....	0	0	0	0	0	0	0	66	0	0	0	0	66
Skates and rays.....	0	1	0	0	0	0	0	20	0	0	0	0	21
Sole, curlfin (turbot)	0	9	0	0	0	0	0	0	0	0	0	0	9
Sole, Dover.....	107654	135498	379535	310509	179096	63274	92562	120172	140924	72229	83608	108569	1793630
Sole, English.....	8067	9511	11428	5466	11098	20079	22783	33066	50105	6321	5433	2001	185358
Sole, flathead.....	0	0	3042	9	0	5	78	0	0	2000	0	0	5134

TABLE 45. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT ASTORIA, 1990. 1/ 2/ (CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Sole, petrale.....	126226	65017	53521	21247	22650	35934	18571	35508	34216	8186	28252	99644	548972
Sole, rex.....	3801	9002	5146	4336	8250	13686	17953	15150	17248	3952	2222	4049	104795
Sole, rock.....	0	0	0	0	43	0	0	0	0	0	0	0	43
Sole, sand.....	0	0	1837	3523	11816	9438	45865	58218	21362	952	1965	0	154976
Sturgeon, green.....	0	0	32	0	113	86	128	143	185	558	0	0	1245
Sturgeon, white.....	0	0	0	0	0	0	0	28	0	14918	3158	0	18104
Tuna, albacore.....	0	0	0	0	0	0	0	230461	287998	49574	0	0	568033
Whiting, Pac. (Hake)..	0	0	0	0	48	0	3096	46	1294	0	0	0	4484
Wolf-eel.....	0	0	10	24	110	35	140	19	4	0	0	0	342
Wrymouth.....	0	1	3	0	1	3	0	10	0	0	0	0	18
CRUSTACEANS:													
Crab, Dungeness, Oc...	1265884	410164	352714	166368	161077	57608	53347	18553	0	0	0	2059555	4545270
Shrimp, pink.....	0	0	0	677970	1056497	995779	757305	629177	294354	98741	0	0	4509823
MOLLUSKS:													
Octopus.....	10	54	187	54	183	720	404	570	400	6	18	0	2606
TOTAL	1788260	893364	1300089	1573123	2083390	2010424	1574217	2012809	1746494	548434	315334	2448642	18294580

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, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Mackeral.....	0	0	0	0	0	0	0	57	0	0	0	0	57
Salmon, chinook.....	0	0	0	0	0	0	0	1377	4070	154	0	0	5601
Salmon, coho.....	0	0	0	0	0	0	0	2669	8558	16	0	0	11243
MOLLUSKS:													
Clams, razor.....	153	1175	6056	7098	10865	5459	571	0	1386	1263	3906	1555	39487
TOTAL	153	1175	6056	7098	10865	5459	571	4103	14014	1433	3906	1555	56388

TABLE 45B. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT CANNON BEACH, 1990.

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	4	0	0	0	0	4
Salmon, chinook.....	0	0	0	0	0	0	2010	512	361	0	0	0	2883
Salmon, coho.....	0	0	0	0	0	0	3982	2967	285	0	0	0	7234
TOTAL	0	0	0	0	0	0	5992	3483	646	0	0	0	10121

TABLE 46. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT NEHALEM BAY, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
CRUSTACEANS:													
Crab, Dungeness, Bay..	0	0	0	0	0	0	73	0	0	0	0	0	73
Shrimp, ghost.....	45	27	93	54	234	192	155	125	498	627	90	63	2203
MOLLUSKS:													
Clams, littleneck.....	0	0	0	291	435	950	661	2425	2877	1905	0	0	9544
Clams, softshell.....	0	0	0	0	0	0	0	64	0	0	0	0	64
TOTAL	45	27	93	345	669	1142	889	2614	3375	2532	90	63	11884

TABLE 47. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT GARIBALDI, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabazon.....	0	0	1	0	42	91	56	3	0	0	0	0	193
Cod, Pacific.....	196	137	311	680	694	269	138	795	1157	260	72	266	4975
Flounder, arrowtooth..	1959	1100	3267	3325	624	141	408	949	936	426	498	1080	14713
Flounder, starry.....	0	37	0	3	76	322	394	1028	26	0	0	0	1886
Halibut, Pacific.....	0	0	0	0	0	0	1063	947	575	0	0	0	2585
Lingcod.....	1145	879	4747	1681	1764	1207	348	6498	8372	750	11	417	27819
Mackeral.....	0	0	0	0	0	0	780	1774	73	0	0	0	2627
Pac. Oc. Perch.....	970	0	1131	2464	1	0	0	0	30	0	0	102	4698
Nominal POP.....	7027	10094	17738	10849	4961	4920	5073	13583	10739	1320	390	1808	88502
Rockfish, widow.....	7832	13315	18758	22626	2041	2291	2524	240	3175	4260	45	4827	81934
Rockfish, yellowtail..	9705	1365	7667	9492	4142	2326	2963	993	1057	12	0	3108	42830
Rkfish, Sebastolobus...	1066	1569	4885	5089	700	12	17	614	1086	728	1320	2092	19178
Rockfish, other spp...	4095	5236	9695	10442	11514	9674	7439	8854	11465	1866	467	3013	83760
Sablefish.....	3273	3637	10015	7296	16778	45704	328	3302	4650	946	1022	2441	99392
Salmon, chinook.....	0	0	0	0	9995	7906	92071	53334	64809	71051	0	0	299166
Salmon, chum.....	0	0	0	0	0	0	2	0	0	0	0	0	2
Salmon, coho.....	0	0	0	0	0	0	108274	124932	153	0	0	0	233359
Sanddab, Pacific.....	0	20	305	295	123	13	87	763	15	0	0	0	1621
Shark, soupfin.....	0	80	0	0	0	19	0	28	0	0	0	0	127
Shark, thresher.....	0	0	0	0	0	0	0	0	0	24	0	0	24
Skates and rays.....	0	0	0	0	0	0	0	25	0	0	0	0	25
Sole, Dover.....	9040	31255	59551	40502	3454	899	448	6886	10633	4114	11625	16825	195232
Sole, English.....	367	233	807	699	422	14	160	984	544	69	67	41	4407
Sole, petrale.....	27522	19015	12577	4438	623	53	494	2265	1575	359	385	8997	78303
Sole, rex.....	829	769	903	1193	62	1	4	494	810	192	12	169	5438
Sole, sand.....	0	227	0	28	911	10800	8067	10816	221	0	0	0	31070
Sturgeon, green.....	0	0	0	0	22	44	0	54	0	0	0	0	120
Sturgeon, white.....	0	0	0	0	0	0	0	229	0	0	0	0	229
Tuna, albacore.....	0	0	0	0	0	0	0	3306	7969	4422	0	0	15697

TABLE 47. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT GARIBALDI, 1990.

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Wolf-eel.....	0	2	1	4	10	44	36	2	0	0	0	0	99
CRUSTACEANS:													
Crab, Dungeness, Oc...	26431	41495	88265	50333	49603	53370	42494	25293	0	0	0	98863	476147
Shrimp, ghost.....	110	109	566	551	1089	1540	1193	1148	834	733	205	34	8112
Shrimp, mud.....	2767	1397	1016	229	217	361	189	0	0	67	1770	1464	9477
Shrimp, pink.....	0	0	0	104452	239574	380271	267446	150349	179502	68613	0	0	1390207
MOLLUSKS:													
Clams, butter.....	0	0	80	59	193	46	234	0	0	0	26	0	638
Clams, cockle.....	2295	550	3964	654	6694	1850	1514	120	1464	0	3744	1200	24049
Clams, gaper.....	0	0	0	0	0	0	10	0	0	0	358	0	368
Clams, littleneck.....	0	0	71	476	662	15	234	0	32	0	453	100	2043
Clams, softshell.....	0	0	0	18	0	0	15	0	0	0	0	0	33
Octopus.....	2	0	0	28	0	0	0	5	0	0	0	0	35
OTHER INVERTEBRATES:													
Sea urchins, red.....	0	0	0	0	0	8774	0	0	0	0	0	0	8774
TOTAL	106631	132521	246321	277906	356991	532977	544503	420613	311902	160212	22470	146847	3259894

TABLE 48. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT NETARTS BAY, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Rockfish, other spp...	0	0	0	0	0	0	102	39	36	0	0	0	177
Salmon, chinook.....	0	0	0	0	0	0	1704	886	1057	0	0	0	3647
Salmon, coho.....	0	0	0	0	0	0	3771	4360	0	0	0	0	8131
CRUSTACEANS:													
Shrimp, ghost.....	0	6	0	0	0	0	0	0	0	0	0	0	6
Shrimp, mud.....	7040	6721	9064	15067	7147	4866	1841	3035	3544	4059	10927	3957	77268
MOLLUSKS:													
Mussels, ocean.....	0	0	0	0	230	100	0	100	0	100	0	308	838
TOTAL	7040	6727	9064	15067	7377	4966	7418	8420	4637	4159	10927	4265	90067

TABLE 49. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT PACIFIC CITY, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Halibut, Pacific.....	0	0	0	0	0	0	36	118	110	0	0	0	264
Lingcod.....	0	7	111	721	1189	983	1562	636	568	999	2702	1174	10652
Mackeral.....	0	0	0	0	0	0	38	192	33	0	0	0	263
Rockfish, other spp...	0	59	709	704	3166	3631	6131	2412	2151	128	92	202	19385
Salmon, chinook.....	0	0	0	0	141	6214	38964	20002	4433	5083	0	0	74837
Salmon, chum.....	0	0	0	0	0	15	0	0	0	0	0	0	15
Salmon, coho.....	0	0	0	0	0	0	80249	89716	1617	0	0	0	171582
Shark, soupfin.....	0	0	0	0	0	42	0	0	0	0	0	0	42
Tuna, albacore.....	0	0	0	0	0	0	0	0	1018	0	0	0	1018
Wolf-eel.....	0	0	0	0	0	10	0	0	0	0	0	0	10
CRUSTACEANS:													
Crab, Dungeness, Oc...	0	0	0	0	0	0	404	940	0	0	0	0	1344
Shrimp, ghost.....	62	58	430	467	1581	1480	1300	888	1493	1806	571	316	10452
MOLLUSKS:													
Mussels, ocean.....	0	0	0	0	0	500	0	200	0	0	1200	0	1900
OTHER INVERTEBRATES:													
Sea urchins, red.....	0	0	0	0	257	5259	3217	0	0	0	0	0	8733
TOTAL	62	124	1250	1892	6334	18134	131901	115104	11423	8016	4565	1692	300497

TABLE 50. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT SILETZ BAY, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 51. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT DEPOE BAY, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	0	0	144	159	187	84	14	8	8	0	0	0	604
Halibut, Pacific.....	0	0	0	0	0	0	391	0	0	0	0	0	391
Lingcod.....	35	0	95	543	737	138	100	26	181	26	174	0	2055
Rockfish, other spp...	0	0	30	180	974	53	103	7	223	38	24	0	1632
Salmon, chinook.....	0	0	0	0	0	5295	6370	865	6135	3873	0	0	22538
Salmon, chum.....	0	0	0	0	0	154	0	0	0	0	0	0	154
Salmon, coho.....	0	0	0	0	0	0	1749	0	0	0	0	0	1749
Surfperch.....	0	0	0	0	0	5	0	0	0	0	0	0	5
CRUSTACEANS:													
Barnacle, Gooseneck...	0	0	0	0	0	7	0	0	0	0	0	0	7
Crab, Dungeness, Oc...	1653	955	4556	4504	7328	11887	14338	9070	0	0	0	18722	73013
MOLLUSKS:													
Clams, cockle.....	0	0	0	0	0	5	0	0	0	0	0	0	5
Mussels, ocean.....	0	0	0	0	15	58	20	18	0	0	0	0	111
Octopus.....	0	0	0	0	0	0	28	0	0	0	0	0	28
OTHER INVERTEBRATES:													
Sea urchins, red.....	0	0	9523	10410	34411	197146	86088	21297	14772	0	0	0	373647
TOTAL	1688	955	14348	15796	43652	214832	109201	31291	21319	3937	198	18722	475939

TABLE 52. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT NEWPORT, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabazon.....	70	990	616	735	64	0	0	0	130	89	88	128	2910
Cod, Pacific.....	77	11	65	10	12	83	2066	1190	1026	409	18	71	5038
Flounder, arrowtooth..	597	382	2226	307	2239	4459	3554	4841	8115	1242	716	159	28837
Flounder, starry.....	23	0	88	396	944	528	622	143	858	279	650	3	4534
Greenling.....	0	0	0	0	0	0	2	0	0	0	0	0	2
Grenadier.....	0	0	0	0	0	0	0	9	0	0	0	164	173
Hagfish.....	0	0	0	1728	1068	0	0	0	0	0	0	0	2796
Halibut, Pacific.....	190	27	293	0	10309	15953	123251	5811	13192	43	87	274	169430
Herring, Pacific.....	0	260668	13	12	39	0	0	0	0	0	0	0	260732
Lingcod.....	18837	11795	14751	6543	3296	8546	21888	13946	10754	6655	8597	9164	134772
Mackeral.....	0	0	0	0	0	1	90	291	39	17	0	0	438
Ratfish.....	0	0	0	1	0	3	0	2	1	0	0	0	7
Pac. Oc. Perch.....	8257	9771	19934	2172	105	1762	1695	2787	7411	1182	1969	3175	60220
Nominal POP.....	60219	76590	137517	11705	4646	12748	20083	18789	50338	16560	22877	31914	463986
Rockfish, widow.....	136333	176951	258199	50370	34432	35547	156936	137982	124828	126570	161167	64061	1463376
Rockfish, yellowtail..	20405	26112	29379	7660	4637	2196	11237	4701	7585	8804	7397	3514	133627
Rkfish, Sebastolobus...	12315	8702	47491	23998	18265	40554	32771	54685	73324	15323	9423	29029	365880
Rockfish, other spp...	9995	21561	57378	53178	57595	37608	19020	36905	33699	42713	23600	10865	404117
Sablefish.....	10466	13853	62707	162579	241141	226635	31011	42819	44942	27982	12421	13656	890212
Salmon, chinook.....	0	0	0	0	63271	432542	367751	91929	12456	15480	0	0	983429
Salmon, chum.....	0	0	0	0	0	134	40	0	0	0	0	0	174
Salmon, coho.....	0	0	0	0	0	594	110134	134	0	0	0	0	110862
Sanddab, Pacific.....	1739	2534	3526	0	4587	3496	2300	7011	7882	5389	2008	0	40472
Irish Lord, Brown.....	0	0	1	0	0	0	0	0	0	0	0	0	1
Irish Lord, Red.....	0	0	1	0	0	2	0	0	0	1	0	0	4
Sculpin, Buffalo.....	0	0	0	0	0	0	0	1	0	0	0	0	1
Shark, blue.....	0	0	0	0	0	0	0	56	0	0	0	0	56
Shark, sixgill.....	0	0	0	0	0	0	0	0	0	23	0	0	23
Shark, soupfin.....	14	42	123	0	3	43	31	111	59	79	0	42	547

TABLE 52. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT NEWPORT, 1990.

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Shark, spiny dogfish..	0	0	57	0	0	2	3	1	8	15	0	0	86
Shark, thresher.....	0	0	0	0	0	0	0	0	9	0	0	0	9
Shark, other.....	0	0	0	0	0	0	0	168	0	0	0	0	168
Skates and rays.....	24	161	123	0	7	7	19	101	82	29	21	0	574
Sole, curlfin (turbot)	0	0	0	0	0	0	0	0	5	0	0	0	5
Sole, Dover.....	18463	11165	82903	18173	34102	30875	51487	87561	129184	47002	23288	22765	556968
Sole, English.....	2007	2947	6998	357	5863	5822	14082	22579	13556	8594	3810	1888	88503
Sole, petrale.....	27912	9661	12996	279	5554	7806	50297	58813	26858	11012	3699	30921	245808
Sole, rex.....	2701	2443	5205	560	683	1287	1790	1839	2807	3169	1835	707	25026
Sole, rock.....	38	0	0	0	0	0	0	0	0	0	0	0	38
Sole, sand.....	583	0	323	3920	13805	16129	14111	2461	20803	1504	2581	5	76225
Sturgeon, green.....	49	0	0	73	155	256	34	0	24	60	211	0	862
Surfperch.....	0	0	2	5	127	126	363	267	218	59	10	0	1177
Tuna, albacore.....	0	0	0	0	0	0	0	347444	367235	35897	0	0	750576
Whiting, Pac. (Hake)..	0	0	0	4904	5461	2500	0	17808	66424	78128	33347	5	208577
Wolf-eel.....	0	8	30	70	162	21	2	0	9	0	4	3	309
CRUSTACEANS:													
Crab, box.....	0	0	3881	1214	0	0	0	1	16	0	0	0	5112
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	184	1106	0	0	1290
Crab, Dungeness, Oc...	257886	233705	157689	63586	59417	54546	109778	61846	0	0	0	1996394	2994847
Crab, Hermit.....	0	0	6	1	4	0	0	0	0	0	0	0	11
Crab, rock.....	0	49	470	139	175	359	116	214	213	1508	343	475	4061
Shrimp, pink.....	0	0	0	972398	1040048	765860	450202	600634	594503	253709	0	0	4677354
MOLLUSKS:													
Clams, gaper.....	0	0	0	0	0	0	0	105	0	53	0	0	158
Clams, softshell.....	0	52	108	0	0	0	76	38	0	0	0	0	274
Mussels, ocean.....	0	15	0	14	0	35	0	44	0	0	0	0	108
Octopus.....	15	43	140	65	140	235	147	111	66	72	63	312	1409
Scallops, weathervane	0	767	0	0	0	0	0	0	0	0	0	0	767

TABLE 52. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT NEWPORT, 1990.

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
OTHER INVERTEBRATES:													
Sea urchins, red.....	0	0	479	895	9241	28503	27079	0	0	0	0	0	66197
TOTAL	589215	871005	905718	1388047	1621597	1737803	1624068	1626178	1618843	710757	320230	2219694	15233155

TABLE 53. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT WALDPOR, 1990.

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	7659	19061	7474	0	34194
Shrimp, ghost.....	1961	1824	3897	5104	10538	11185	6750	7383	5488	6926	3157	2927	67140
MOLLUSKS:													
Clams, cockle.....	0	0	0	154	0	0	0	0	0	0	0	0	154
Clams, softshell.....	4	0	0	0	0	0	0	0	0	0	0	0	4
Mussels, ocean.....	0	0	106	0	0	0	0	56	0	0	0	0	162
TOTAL	1965	1824	4003	5258	10538	11185	6750	7439	13147	25987	10631	2927	101654

TABLE 54. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT FLORENCE, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Halibut, Pacific.....	0	0	0	0	0	0	3265	0	0	0	0	0	3265
Lingcod.....	0	0	0	0	0	11	40	0	0	0	0	0	51
Mackeral.....	0	0	0	0	0	0	17	0	0	0	0	0	17
Rockfish, other spp...	0	0	0	0	14	18	224	0	6	0	0	0	262
Sablefish.....	0	9741	37178	51872	40878	67072	395	0	0	6873	0	0	214009
Salmon, chinook.....	0	0	0	0	14715	39138	130036	27072	1701	0	0	0	212662
Salmon, chum.....	0	0	0	0	21	0	0	0	0	0	0	0	21
Salmon, coho.....	0	0	0	0	0	0	33404	0	0	0	0	0	33404
Sanddab, Pacific.....	0	0	0	0	0	0	0	4	0	0	0	0	4
Shad, American.....	0	0	0	0	200	699	0	0	0	0	0	0	899
Skates and rays.....	0	0	0	0	0	0	16	0	0	0	0	0	16
Tuna, albacore.....	0	0	0	0	0	0	0	15479	3932	0	0	0	19411
CRUSTACEANS:													
Crab, Dungeness, Oc...	36524	19779	31858	26487	25167	47808	66801	52436	0	0	0	69929	376789
Shrimp, ghost.....	0	0	10	18	75	0	0	0	0	0	0	0	103
MOLLUSKS:													
Mussels, ocean.....	0	0	90	225	0	0	0	0	0	30	75	0	420
Octopus.....	0	0	0	0	0	41	0	0	0	0	0	0	41
TOTAL	36524	29520	69136	78602	81070	154787	234198	94991	5639	6903	75	69929	861374

TABLE 55. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT WINCHESTER BAY, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Flounder, starry.....	0	0	0	0	0	0	0	22	0	0	0	0	22
Halibut, Pacific.....	0	0	0	0	0	0	4802	0	0	0	0	0	4802
Herring, Pacific.....	0	0	0	0	0	0	329	247	0	0	0	0	576
Lingcod.....	0	109	412	1883	182	28	168	162	1125	0	186	0	4255
Pac. Oc. Perch.....	0	0	0	0	0	0	0	0	20	11	0	0	31
Rockfish, other spp...	0	134	234	1917	1312	351	293	274	730	69	259	0	5573
Sablefish.....	0	0	0	24929	340	863	494	0	2	0	0	0	26628
Salmon, chinook.....	0	0	0	0	27255	115698	321744	78409	4170	120	0	0	547396
Salmon, chum.....	0	0	0	0	38	0	44	0	0	0	0	0	82
Salmon, coho.....	0	0	0	0	0	266	73701	18	0	0	0	0	73985
Shad, American.....	0	0	0	0	6604	4425	0	0	0	0	0	0	11029
Sole, Dover.....	0	0	0	0	5	184	96	11	194	54	0	0	544
Sole, English.....	0	0	0	0	0	0	0	134	7	0	0	0	141
Sole, petrale.....	0	0	0	0	0	0	0	26	25	3	0	0	54
Sole, rex.....	0	0	0	0	0	0	0	13	0	0	0	0	13
Sole, sand.....	0	0	0	0	0	0	0	635	0	23	0	0	658
Tuna, albacore.....	0	0	0	0	0	0	0	40024	50754	1423	0	0	92201
CRUSTACEANS:													
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	1547	10047	1738	0	13332
Crab, Dungeness, Oc...	69441	75937	66231	34686	43765	36522	89929	75309	0	0	0	437032	928852
Shrimp, pink.....	0	0	0	5628	3647	23136	16455	8190	18079	1277	0	0	76412
MOLLUSKS:													
Clams, cockle.....	0	0	0	0	0	0	0	0	0	0	0	7	7
Clams, softshell.....	0	0	0	46	106	194	267	485	768	196	314	626	3002
Mussels, ocean.....	1523	1624	1047	773	2121	391	221	229	184	221	0	0	8334
TOTAL	70964	77804	67924	69862	85375	182058	508543	204188	77605	13444	2497	437665	1797929

TABLE 56. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT CHARLESTON, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabazon.....	10	0	2	158	113	60	261	44	20	0	0	0	668
Cod, Pacific.....	181	7	0	0	28	441	239	208	89	122	0	0	1315
Flounder, arrowtooth..	819	270	549	122	641	2763	1963	2556	2294	1541	443	362	14323
Flounder, starry.....	0	0	0	0	281	254	952	2401	591	0	0	1	4480
Grenadier.....	0	19	569	0	0	1539	1853	3221	2214	1599	1420	1012	13446
Hagfish.....	0	0	0	0	0	0	0	0	0	2549	6218	0	8767
Halibut, Pacific.....	0	33	45	0	0	0	4999	1408	65	0	0	0	6550
Lingcod.....	3047	5433	8819	17255	5598	12619	12909	20691	23509	11312	4882	852	126926
Mackerel.....	0	0	0	0	0	0	1	23	0	0	0	0	24
Pollock, walleye.....	0	0	0	0	0	0	1	0	0	0	0	0	1
Pac. Oc. Perch.....	259	307	0	80	912	1989	479	1477	804	648	350	0	7305
Nominal POP.....	6437	5966	7127	2027	11577	11780	10233	13253	9806	9090	13316	11464	112076
Rockfish, widow.....	54682	44974	47563	9761	15232	14062	8540	19399	84464	70369	56121	9872	435039
Rockfish, yellowtail..	5882	3791	19590	1619	5290	747	579	2527	14154	51527	44934	10911	161551
Rkfish, Sebastolobus...	165131	198781	313367	87393	225601	200069	218160	277725	250973	147715	165975	116595	2367485
Rockfish, other spp...	19370	12490	33996	17292	37734	33379	31966	48139	143121	82996	57019	23364	540866
Sablefish.....	49844	51098	100362	84321	136788	158309	96161	128938	106360	52527	55916	53123	1073747
Salmon, chinook.....	0	0	0	0	221212	233051	1181740	886761	93674	31265	504	0	2648207
Salmon, chum.....	0	0	0	0	111	189	0	0	0	0	0	0	300
Salmon, coho.....	0	0	0	0	0	0	210238	1983	0	0	0	0	212221
Sanddab, Pacific.....	0	106	158	0	160	313	115	3473	18131	7107	6981	7982	44526
Shark, sixgill.....	0	0	0	0	0	66	0	0	0	0	0	0	66
Shark, soupfin.....	0	0	0	0	94	83	53	12	28	32	100	0	402
Shark, thresher.....	0	0	0	0	0	0	0	0	0	0	43	0	43
Shark, other.....	0	0	0	0	0	0	0	19	0	0	0	0	19
Smelt.....	0	0	0	0	0	0	20	0	0	0	0	0	20
Sole, curlfin (turbot)	0	0	0	0	22	7	92	18	19	0	0	0	158
Sole, Dover.....	190563	169022	243158	114692	103544	89177	108103	185631	208644	105163	92072	105479	1715248
Sole, English.....	5260	3804	5671	466	2458	2576	4259	14683	12817	5648	2194	3638	63474

TABLE 56. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT CHARLESTON, 1990.

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Sole, petrale.....	109425	32609	11383	777	3056	3348	11446	22190	17379	10573	35486	153930	411602
Sole, rex.....	2755	3639	943	8	178	520	541	381	795	618	758	1282	12418
Sole, rock.....	0	0	0	0	658	48	327	260	136	0	0	0	1429
Sole, sand.....	0	0	0	0	4266	2907	23269	44979	7290	0	0	0	82711
Sturgeon, green.....	0	0	0	0	150	138	380	115	171	0	0	0	954
Sturgeon, white.....	0	0	0	0	1514	182	69	451	342	0	0	0	2558
Tuna, albacore.....	0	0	0	0	0	0	0	35855	132126	2441	13411	0	183833
Whiting, Pac. (Hake)..	0	0	0	0	0	0	325	6115	0	0	0	0	6440
Wolf-eel.....	0	0	0	20	55	1	94	12	3	0	0	0	185
Wrymouth.....	0	0	0	0	0	0	0	0	1	0	0	0	1
CRUSTACEANS:													
Crab, box.....	0	0	0	0	0	0	8	0	0	0	0	0	8
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	13011	29020	18779	3421	64231
Crab, Dungeness, Oc...	226683	139269	241762	74186	58104	44295	44442	22863	0	0	0	1232565	2084169
Crab, rock.....	0	0	0	0	0	0	0	0	132	265	185	0	582
Shrimp, ghost.....	506	431	475	548	1622	1530	2179	845	825	459	341	369	10130
Shrimp, pink.....	0	0	0	572509	802063	992863	323134	333896	244917	89034	0	0	3358416
MOLLUSKS:													
Clams, butter.....	11	24	32	119	100	93	49	148	61	37	0	1	675
Clams, cockle.....	0	0	0	0	74	190	25	0	0	0	0	0	289
Clams, gaper.....	0	0	0	0	0	0	268	335	1231	1627	18	78	3557
Clams, littleneck.....	0	0	4	59	10	87	2	17	5	2	0	2	188
Mussels, ocean.....	0	0	44	17	0	0	125	62	0	0	42	0	290
Octopus.....	0	0	15	0	17	10	0	8	18	0	0	11	79
OTHER INVERTEBRATES:													
Sea urchins, red.....	0	0	0	44313	0	35896	61950	3087	0	0	0	0	145246
TOTAL	840865	672073	1035634	1027742	1639263	1845581	2362549	2086209	1390220	715286	577508	1736314	15929244

TABLE 57. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT BANDON, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Halibut, Pacific.....	0	0	0	0	0	0	130	123	0	0	0	0	253
Lingcod.....	0	0	0	83	0	20	28	56	0	11	2	0	200
Rockfish, other spp...	0	0	0	145	56	1126	1057	3703	2416	64	37	0	8604
Salmon, chinook.....	0	0	0	0	6546	20017	130001	107248	9812	648	0	0	274272
Salmon, chum.....	0	0	0	0	18	0	0	0	0	0	0	0	18
Salmon, coho.....	0	0	0	0	0	0	18202	788	0	0	0	0	18990
Tuna, albacore.....	0	0	0	0	0	0	0	0	1541	0	0	0	1541
CRUSTACEANS:													
Crab, Dungeness, Bay..	0	0	0	0	0	0	0	0	0	457	0	0	457
Crab, Dungeness, Oc...	0	2451	3484	3907	10722	6000	1917	109	0	0	0	1073	29663
Shrimp, ghost.....	0	0	0	0	0	14	0	48	81	64	42	17	266
Shrimp, pink.....	0	0	0	0	0	0	0	1125	0	0	0	0	1125
TOTAL	0	2451	3484	4135	17342	27177	151335	113200	13850	1244	81	1090	335389

TABLE 58. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT PORT ORFORD, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabazon.....	0	78	37	57	0	0	38	0	0	0	0	0	210
Flounder, arrowtooth..	0	0	0	0	0	5	0	0	0	1	0	0	6
Flounder, starry.....	0	0	0	0	0	0	2	0	0	0	0	0	2
Hagfish.....	0	0	0	0	0	0	428	10639	4389	0	7664	11950	35070
Halibut, Pacific.....	0	0	0	0	0	0	595	626	275	0	0	0	1496
Lingcod.....	1315	1876	2152	5058	192	971	683	2396	6893	473	278	41	22328
Nominal POP.....	0	0	0	0	0	0	0	0	0	102	0	0	102
Rockfish, widow.....	0	0	0	0	0	0	0	0	486	454	467	1242	2649
Rockfish, yellowtail..	0	0	0	0	0	0	0	0	0	866	0	0	866
Rockfish, other spp...	2302	4107	5516	15932	1517	5759	5706	22640	59769	11461	9931	2600	147240
Sablefish.....	0	0	931	236	6787	27128	136	0	90	30062	12560	0	77930
Salmon, chinook.....	0	0	0	0	5705	5808	176989	58112	11759	53793	0	0	312166
Salmon, chum.....	0	0	0	0	12	0	0	0	0	0	0	0	12
Salmon, coho.....	0	0	0	0	0	0	33485	174	0	0	0	0	33659
Shark, soupfin.....	33	0	0	0	0	0	0	0	15	0	0	0	48
Skates and rays.....	0	2	0	0	0	0	0	0	0	0	0	0	2
Sole, Dover.....	0	0	0	0	48	0	25	0	0	0	0	0	73
Sole, rex.....	0	0	0	0	4	0	0	0	0	0	0	0	4
Tuna, albacore.....	0	0	0	0	0	0	0	0	3580	0	0	0	3580
Wolf-eel.....	0	1	0	0	0	0	0	0	0	0	0	0	1
CRUSTACEANS:													
Crab, Dungeness, Oc...	77178	34112	78270	58202	27469	11085	5216	2265	0	0	0	482085	775882
Shrimp, pink.....	0	0	0	0	20872	16383	15613	12076	12037	1014	0	0	77995
MOLLUSKS:													
Mussels, ocean.....	225	2000	0	0	0	0	0	0	0	0	0	0	2225
Octopus.....	331	57	79	150	0	23	34	24	3	0	0	558	1259
Scallops, rock.....	0	0	1	0	0	0	0	0	0	0	0	0	1

TABLE 58. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT PORT ORFORD, 1990.

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
OTHER INVERTEBRATES:													
Sea urchins, red.....	237853	339318	316304	347555	229322	141443	71071	105323	93659	96586	236171	433915	2648520
TOTAL	319237	381551	403290	427190	291928	208605	310021	214275	192955	194812	267071	932391	4143326

TABLE 59. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT GOLD BEACH, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Halibut, Pacific.....	0	0	0	0	0	0	83	0	0	0	0	0	83
Lingcod.....	0	182	1120	3743	645	886	743	3854	6162	0	48	92	17475
Rockfish, widow.....	0	0	0	0	0	0	4	0	0	0	0	0	4
Rockfish, other spp...	0	40	313	1950	878	2999	1594	7023	15009	114	460	46	30426
Sablefish.....	0	0	0	0	0	697	0	0	0	2395	9456	1634	14182
Salmon, chinook.....	0	0	0	0	168	0	26431	13221	232	0	0	0	40052
Salmon, coho.....	0	0	0	0	0	0	2040	0	0	0	0	0	2040
CRUSTACEANS:													
Crab, Dungeness, Oc...	0	0	0	0	286	480	0	0	0	0	0	0	766
OTHER INVERTEBRATES:													
Sea urchins, red.....	10428	51483	37954	87429	130169	78210	195704	235544	187442	30481	34041	49663	1128548
TOTAL	10428	51705	39387	93122	132146	83272	226599	259642	208845	32990	44005	51435	1233576

TABLE 60. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT BROOKINGS, 1990.

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH:													
Cabezon.....	0	0	6	0	0	0	0	113	2	0	0	0	121
Cod, Pacific.....	0	0	0	0	0	0	0	0	3	0	0	0	3
Flounder, arrowtooth..	98	93	9	158	76	128	554	523	819	621	325	308	3712
Flounder, starry.....	0	0	0	0	0	0	0	22	23	0	12	0	57
Grenadier.....	48	177	792	299	890	123	623	2399	705	1170	391	299	7916
Hagfish.....	0	0	0	0	0	0	0	0	2125	246	0	0	2371
Halibut, Pacific.....	0	0	0	0	0	0	108	1275	400	0	0	0	1783
Lingcod.....	1273	3337	3771	1265	6350	5537	4907	18799	14965	1500	1608	541	63853
Mackerel.....	0	0	0	0	0	0	0	0	33	0	0	0	33
Nominal POP.....	677	1029	1079	1176	1046	894	2209	2560	5591	953	766	321	18301
Rockfish, widow.....	50	0	15558	9738	16473	5116	10109	28040	54623	33638	35769	9694	218808
Rockfish, yellowtail..	27	0	9369	2491	3001	0	76	2858	9662	2429	3021	1724	34658
Rkfish, Sebastolobus...	61369	50766	105873	48547	50571	20221	31118	86000	56561	51875	62257	16601	641759
Rockfish, other spp...	3576	1891	6157	4193	4964	6695	7015	22819	30384	5888	3262	1337	98181
Sablefish.....	12546	6534	29541	31083	36235	31486	58438	49554	27798	24451	18616	10537	336819
Salmon, chinook.....	0	0	0	0	2493	417	57132	60815	4061	351	0	0	125269
Salmon, coho.....	0	0	0	0	0	0	6864	0	0	0	0	0	6864
Sanddab, Pacific.....	19	49	1	38	35	0	0	97	44	2	19	0	304
Shark, soupfin.....	0	0	0	0	0	87	0	11	0	0	0	0	98
Shark, thresher.....	0	0	0	0	0	399	0	0	0	0	0	0	399
Sole, Dover.....	17001	4293	21295	21366	15958	8687	30549	56679	45462	27072	9542	11683	269587
Sole, English.....	116	116	25	105	118	25	341	2864	2939	1218	502	152	8521
Sole, petrale.....	19061	3975	453	91	416	123	1724	8831	8629	1962	4806	23521	73592
Sole, rex.....	1419	327	752	1075	467	203	1085	1558	1489	1317	643	1183	11518
Sole, sand.....	0	0	0	0	0	0	0	870	24	569	9	0	1472
Surfperch.....	9	604	115	525	4	58	272	354	395	22	0	0	2358
Tuna, albacore.....	0	0	0	0	0	0	0	5857	14529	1089	9819	2429	33723

TABLE 60. ESTIMATED VALUE (\$), AT THE FISHERMAN'S LEVEL, OF MONTHLY COMMERCIAL FISH AND SHELLFISH LANDINGS AT BROOKINGS, 1990.

(CONT.)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
CRUSTACEANS:													
Crab, Dungeness, Oc...	109758	47910	80546	46878	36047	9017	418	1395	0	0	0	1822545	2154514
Shrimp, pink.....	0	0	0	379595	240540	446310	176756	194961	71882	27381	0	0	1537425
MOLLUSKS:													
Octopus.....	277	175	108	227	80	268	117	186	314	7	4	4312	6075
OTHER INVERTEBRATES:													
Sea urchins, red.....	2452	4577	11976	3786	0	2781	0	8049	0	0	0	0	33621
TOTAL	229776	125853	287426	552636	415764	538575	390415	557489	353462	183761	151371	1907187	5693715

Table 61. Salmon (Numbers and Pounds) harvested by Oregon private hatcheries 1986-1990.

	Chinook Adults	Chinook Jacks	Coho Adults	Coho Jacks ¹	Chum
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
1990					
Number	6,910	1,228	35,592	9	321
Pounds	103,638	4,158	176,275	13	2,674

¹ May include small adults.

Table 62. Pounds of salmon harvest by Oregon private salmon hatcheries 1990¹

Species	March	April	May	June	July	August	September	October	November	December	January	February	Total
Chinook													
Adult...	---	5,848	19,878	29,264	6,680	3,375	18,777	19,251	565	---	---	---	103,638
Jack....	---	---	60	1,453	1,696	233	416	300	---	---	---	---	4,158
Coho													
Adult...	---	---	---	15	20	3,992	78,238	89,462	4,548	---	---	---	176,275
Jack ² ...	---	---	---	---	---	---	13	---	---	---	---	---	13
Chum													
Adult...	---	---	---	---	---	---	---	---	2,674	---	---	---	2,674
TOTAL													
Adult...	---	5,848	19,878	29,279	6,700	7,367	97,105	108,713	7,787	---	---	---	282,587
Jack....	---	---	60	1,453	1,696	233	429	300	---	---	---	---	4,171

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, 1990.

COUNTY/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
BAKER													
Crayfish	0	0	0	0	84	3176	11032	4653	2393	2304	0	0	23642
CLACKAMAS													
Crayfish	0	0	0	0	0	895	4770	2237	0	0	0	0	7902
Mussels, Freshwater	0	0	0	0	0	0	0	0	9946	0	0	0	9946
Lamprey, Pacific	0	0	0	0	0	9282	4921	0	0	0	0	0	14203
TOTAL	0	0	0	0	0	10177	9691	2237	9946	0	0	0	32051
CLATSOP													
Crayfish	0	0	0	301	254	1794	3214	1918	626	2892	0	0	10999
COLUMBIA													
Crayfish	0	0	0	0	0	364	0	519	0	0	0	0	883
CROOK													
Crayfish	0	0	0	0	0	0	0	0	0	32	0	0	32
DESCHUTES													
Crayfish	0	0	0	587	267	179	144	1429	660	94	0	0	3360
DOUGLAS													
Crayfish	0	0	0	0	0	88	164	163	0	23	0	0	438
JACKSON													
Crayfish	0	0	0	0	0	0	0	1939	599	0	0	0	2538
JEFFERSON													
Crayfish	0	0	0	5858	8776	8451	14987	4856	5015	1031	0	0	48974
LAKE													
Shrimp, Brine	0	0	0	0	9500	10600	11000	8200	0	0	0	0	39300

TABLE 63. MONTHLY LANDINGS (POUNDS ROUND) OF CARP, CRAYFISH, FRESHWATER MUSSELS, PACIFIC LAMPREY AND BRINE SHRIMP HARVESTED IN OREGON, 1990.

COUNTY/SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
LANE													
Crayfish	0	0	0	0	38	94	0	0	0	0	0	0	132
LINCOLN													
Crayfish	0	0	0	0	5	0	5	0	0	0	0	0	10
MULTNOMAH													
Crayfish	0	0	0	0	1036	5595	4034	1323	4793	2641	0	0	19422
WASHINGTON													
Crayfish	0	0	0	0	0	1943	2196	1713	1731	0	0	0	7583
YAMHILL													
Crayfish	0	0	0	0	3300	5707	14394	14491	4067	2035	0	0	43994
TOTAL													
Carp	0	0	0	0	0	0	0	0	0	0	0	0	0
Crayfish	0	0	0	6746	13760	28286	54940	35241	19884	11052	0	0	169909
Mussels, Freshwater	0	0	0	0	0	0	0	0	9946	0	0	0	9946
Lamprey, Pacific	0	0	0	0	0	9282	4921	0	0	0	0	0	14203
Shrimp, Brine	0	0	0	0	9500	10600	11000	8200	0	0	0	0	39300

Table 64. Oregon oyster production (gallons), 1981-90.

Bay/Species	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
<u>Tillamook Bay</u>										
Kumomoto oyster.....	6	7	0	0	9	4	0	0	0	0
Pacific oyster.....	22,575	26,174	21,330	30,964	21,204	21,325	23,930	24,084	26,052	13,782
<u>Netarts Bay</u>										
Pacific oyster.....	40	0	0	6	40	30	36	41	216	219
<u>Yaquina Bay</u>										
Kumomoto oyster.....	0	0	1	16	0	0	0	0	0	0
Pacific oyster.....	7,020	7,713	6,423	7,210	10,911	12,130	12,798	10,924	9,602	6,570
<u>Coos Bay</u>										
Pacific oyster.....	4,089	3,164	3,138	9,834	5,270	3,065	3,942	3,400	4,115	4,722
TOTAL	33,730	37,058	30,892	48,030	37,434	36,554	40,706	38,449	39,985	25,293

SOURCE: Oregon Department of Agriculture

APPENDIX

1990 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 \$208 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 nearly 14 percent of coastal earned income in 1990. 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, 1990. (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	\$43.5	\$4.9	\$25.9	\$34.3	\$16.9	\$125.6	\$161.2
Distant Water	\$19.7	\$1.8	\$54.4	\$5.5	\$1.1	\$82.4	\$100.0
Total	\$63.2	\$6.6	\$80.3	\$39.8	\$18.0	\$208.0	\$261.2
Percent of Total Personal Income 3/	11.1%	2.0%	12.9%	4.4%	6.1%	7.7%	0.5%
Percent of Total Earned Income 4/	17.6%	3.8%	24.0%	7.5%	13.1%	13.6%	0.8%

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. Estimates for Coos Bay area are slightly overstated due to inclusion of Reedsport and Florence impacts in comparison to Coos County personal income.

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.