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Fish Bulletin 132. The California Marine Fish Catch For 1964

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Publication Date

1965

**THE RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF FISH AND GAME
FISH BULLETIN 132
The California Marine Fish Catch For 1964**



By
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and
DAVID J. MACKETT
1965



FIGURE 1

(2)

FIGURE 1

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FOREWORD

Catch bulletins provide records of California's commercial fisheries and their value to fishermen. They also summarize the marine partyboat angler's catch.

The report for 1964 is the 24th in the series. Prior records have been published regularly beginning with those for 1926 and 1927. In recent years, catch bulletins have been published annually instead of biennially.

Records are obtained from each wholesale fish dealer or processor who receives fish from fishermen or who processes fish. Partyboat operators record each trip's catch, and these records are also sent to the Department. Clerical personnel in strategic locations (Eureka, San Francisco, Monterey, Terminal Island, and San Diego) maintain contact with fish dealers and local Fish and Game wardens to insure that the records are accurate and transmitted promptly. All data are edited and subsequently processed by electric accounting machines.

Published figures are of national and international concern, but they are used primarily by fisheries scientists and state legislators to manage and regulate California's important fisheries. Chambers of commerce, members of the fishing industry, educators, and others also find these catch statistics of value.

Special acknowledgement is given to the staff of the Biostatistical Unit who process the many documents necessary for this publication. The assistance of the wardens along the coast and the aid forthcoming from the many fish wholesale dealers and canners is appreciated.

1. EXPLANATION OF TABLES

The tables of this report summarize the statistics of various fisheries operations in California during 1964. In general, this report covers: landings of the commercial fishing fleet of California; sport catches of the partyboat fleet; imports of fish from other states or foreign countries that are destined for processing in California; deliveries to retail stores of bait used for sportfishing; and catches of boats that supply partyboats, skiffs, and yachts with live bait.

One of the most important fishery statistics we present is the total landings of each species harvested by California's fishermen. In addition, it is essential to know where and when catches are made. The tables therefore show the month and area of landing for each variety.

Data are not available for some of California's fisheries operations. For instance, fish shipped into California that are utilized in a fresh state are not reported to our Department. Likewise, sport fishermen aboard private skiffs and yachts, or fishing from shore or piers are not required to report their catches; however, the Department investigates the catch and effort expended in these activities.

1.1. SOURCE OF DATA

Data on the commercial fishing fleet, bait deliveries, and imports are recorded on sales slips or receipts which are completed by fish dealers at the time of delivery. The receipts are transmitted to the Department twice each month. Each dealer is required by law to include on the receipt the following information concerning the transaction: weight of each species received; price paid to the fisherman; date; name of the fisherman; Department of Fish and Game registration number of boat; name of the dealer; and intended disposition of the fish (canned, fresh, etc.).

In addition, area of catch and type of gear used to catch the fish are reported for most landings.

The partyboat and live-bait boat catches are obtained from records or logs completed for each trip by the boat operator. The law requires skippers of partyboats to send records of their daily catches to the Department each month; however, the information received from the live-bait boats is given voluntarily.

The log of each fishing trip made by a partyboat contains the following information: count of each species taken; number of anglers; area fished; the number of hours fished; date; and boat identification.

Operators of live-bait boats report the number of net-sets and the number of scoops of bait sold each day. The species caught as well as the area fished are also given.

When fish receipts and fishing trip records are received, they are first edited and coded. The data are then punched into cards before being summarized with electric tabulating machines.

1.2. STATISTICAL AREAS

California is divided into seven areas for the purpose of reporting fisheries statistics. Each statistical area is named for a major port within its boundaries (Figure 1). Department personnel are responsible for collecting and inventorying landing receipts in each statistical area.

1.3. SPECIES

The species of fish landed or shipped into California are listed in Table 2. Both common and scientific names are given. Some varieties are reported collectively when, for economic or other reasons, dealers do not report a specific separation.

One example of species grouping is the animal-food category which consists of a variety of fish caught by trawling. In an attempt to determine the species comprising animal food landings, a sampling program has been conducted by biologists of the Department's Bottomfish Investigation. Based on their findings, the estimated weight each species contributed to the 1964 animal-food category is:

<i>Species</i>	<i>Percent</i>	<i>Pounds</i>
Sablefish	44.8	778,822
Pacific hake	15.9	276,412
Rockfish	12.6	219,044
Arrowtooth flounder	12.2	212,090
Dover sole	5.3	92,137
English sole	4.2	73,014
Rex sole	2.4	41,723
Twenty-one other species	2.6	45,199
	100.0	1,738,441

1.4. CONDITION

Most fish and shellfish landed in California are in a round condition; however, some species, such as salmon and swordfish, are eviscerated or cleaned before landing. The condition of fish landed and shipped into the State cannot always be determined; therefore, the weights summarized in the tables are as reported to the Department without regard to condition.

Starting with 1963 records, the oyster poundage is published as packed gallon weight instead of live (in the shell) weight. The packed gallon weight of Pacific oysters is estimated to be 15.5 percent of live weight landings; that for Eastern oysters is somewhat lower at 10.9 percent.

1.5. CONVERSIONS

Landings reported by units of measure other than pounds are equated to pounds by using appropriate conversion factors. Conversion factors

are determined periodically by sampling landings at delivery points. The factors applied to nine species during 1964 were:

Abalone, red	50 pounds per dozen
Abalone, pink	25 pounds per dozen
Abalone, green	35 pounds per dozen
Clam, Washington	7 pounds per dozen
Crab, market	2 pounds each
Crab, sand	.041 pounds per dozen
	4.5 pounds per gallon
Mudsucker	19 pounds per tray
	.465 pounds per dozen
Mussel	80 pounds per sack
	3.8 pounds per shucked pound
	30 pounds per gallon
Shrimp, ghost	.046 pounds per dozen

1.6. VALUE

Value is computed from prices paid to the fishermen. Values, therefore, reflect the contribution of the fishermen to the total worth of the fisheries. When the price paid for an individual landing is not specified, the average price for the species in the area in which it was landed is used.

2. TABLES

TABLE 1
Common and Scientific Names of Fishes, Crustaceans, and Mollusks in the 1964 Catch

Common name	Scientific name	Common name	Scientific name
FISHES			
Anchovy	<i>Engraulis mordax</i>	Shark	
Barracuda, California	<i>Sphyraena argentea</i>	Brown smooth-	<i>Triakis henlei</i>
Blacksmith	<i>Chromis punctipinnis</i>	hound	<i>Triakis semifasciata</i>
Bonito, Pacific	<i>Sarda chilensis</i>	Leopard	<i>Squalius californica</i>
Cabezon	<i>Scorpaenichthys marmoratus</i>	Pacific angel	<i>Oplegnathus xiphopterus</i>
Calilla, spotted	<i>Epinephelus analogus</i>	Surgeon	<i>Squatina californica</i>
Carp	<i>Cyprinus carpio</i>	Spiny dogfish	<i>Squalus acanthias</i>
Croaker		Thresher	<i>Alopias vulpinus</i>
White	<i>Genyonemus lineatus</i>	Small amounts of	
Small amounts of		others	
queenfish	<i>Seripis politus</i>	Sheephead, California	<i>Pimelomelopon pulchrum</i>
Dolphinfish	<i>Coryphaena hippurus</i>	Sierra	<i>Scomberomorus sierra</i>
Eel, moray	<i>Gymnophorax mordax</i>	Skate	
Flounder		Big	<i>Raja binoculata</i>
Arrowtooth	<i>Atheresthes stomias</i>	California	<i>Raja inornata</i>
Starry	<i>Platichthys stellatus</i>	Longnose	<i>Raja rhina</i>
Small amounts of		Small amounts of	
other flatfishes		others	<i>Rajiformes</i>
Flyingfish	<i>Cypselurus spp.</i>	Smelt	
Greenling, kelp	<i>Hexagrammos decagrammus</i>	Grunion	<i>Leuresthes tenuis</i>
Groupers	<i>Micleroperca spp.</i>	Jacksmelt	<i>Atherinopsis californiensis</i>
Hake, Pacific	<i>Merluccius productus</i>	Surf	<i>Hopomesus pretiosus</i>
Halfmoon	<i>Medialuna californiensis</i>	Topsmelt	<i>Atherinops affinis</i>
Halibut		Smelt, whitebait	<i>Allosmerus elongatus</i>
California	<i>Paralichthys californicus</i>	Spirinchus starksii	
Pacific	<i>Hippoglossus stenolepis</i>	Young of several others	
Hardhead		Sole	
Sacramento black-		Dover	<i>Microstomus pacificus</i>
fish	<i>Orthodon microlepidotus</i>	English	<i>Parophrys velutinus</i>
Hardhead	<i>Mylopharodon conocephalus</i>	Petrule	<i>Eopsetta jordani</i>
Herring, Pacific	<i>Clupea pallasi</i>	Rock	<i>Glyptocephalus zachirus</i>
Lingcod	<i>Ophiodon elongatus</i>	Sand	<i>Psettichthys melanostictus</i>
Mackerel		Small amounts of	
Jack	<i>Trachurus symmetricus</i>	others	
Pacific	<i>Scomber diego</i>	Splitjaw	<i>Pogonichthys macrolepidotus</i>
Mudskipper, longjaw	<i>Gillithys mirabilis</i>	Sturgeon	<i>Acipenser spp.</i>
Mullet, striped	<i>Mugil cephalus</i>	Sucker	<i>Catostomus spp.</i>
Opahye	<i>Girella nigricans</i>	Swordfish	<i>Xiphias gladius</i>
Perch	Members of family Embiotocidae	Tuna	
Pompano, Pacific	<i>Palometra similima</i>	Albacore	<i>Thunnus alalunga</i>
Rockfish	All species of <i>Sebastodes</i> and	Bigeye	<i>Thunnus obesus</i>
Sablefish	<i>Sebastolobus</i>	Bluefin	<i>Thunnus thynnus</i>
Salmon	<i>Anoplopoma fimbria</i>	Skipjack	<i>Katsuwonus pelamis</i>
King	<i>Oncorhynchus tshawytscha</i>	Yellowfin	<i>Thunnus albacares</i>
Silver	<i>Oncorhynchus kisutch</i>	Turbot	
Sanddab	<i>Citharichthys sordidus</i>	Curlfin	<i>Pleuronichthys decurrens</i>
Sardine	<i>Sardinops caerulea</i>	Diamond	<i>Hypsopsetta guttulata</i>
Sargo	<i>Anisotremus davidsoni</i>	Hornyhead	<i>Pleuronichthys verticalis</i>
Sculpin	<i>Scorpaena guttata</i>	Small amounts of	
Sea bass, giant	<i>Stereolepis gigas</i>	others	
Seabass, white	<i>Cynoscion nobilis</i>	Wahoo	<i>Acanthocybium solanderi</i>
Shad	<i>Alosa sapidissima</i>	Whitemesh, ocean	<i>Caulolatilus princeps</i>
CRUSTACEANS			
Crab		Prawn	<i>Pandalus platyceros</i>
King	<i>Paralithodes camtschatica</i>	Shrimp	
Market	<i>Cancer magister</i>	Bay	<i>Crangon franciscorum</i>
Rock	<i>Cancer productus</i>	Bay	<i>Crangon nigricauda</i>
Rock	<i>Cancer antennarius</i>	Ghost	<i>Callianassa californicus</i>
Sand	<i>Cancer anthonyi</i>	Ocean	<i>Pandalus jordani</i>
Lobster, spiny	<i>Emerita analoga</i>	Red	<i>Hippolytis californica</i>
MOLLUSKS			
Abalone		Mussel	
Pink	<i>Haliotis corrugata</i>	Bay	<i>Mytilus edulis</i>
Red	<i>Haliotis rufescens</i>	Rock	<i>Mytilus californianus</i>
Green	<i>Haliotis fulgens</i>	Octopus	<i>Octopus spp.</i>
Clam		Oyster	
Freshwater	<i>Corbicula fluminea</i>	Eastern	<i>Crassostrea virginica</i>
Gaper	<i>Trema natalii</i>	Giant Pacific	<i>Crassostrea gigas</i>
Jackknife	<i>Tegulus californianus</i>	Snail, sea	<i>Keledia kelleii</i>
Purple	<i>Sanguinolaria nattalli</i>	Squid	<i>Loligo opalescens</i>

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TABLE 1
Common and Scientific Names of Fishes, Crustaceans, and Mollusks in the 1964 Catch

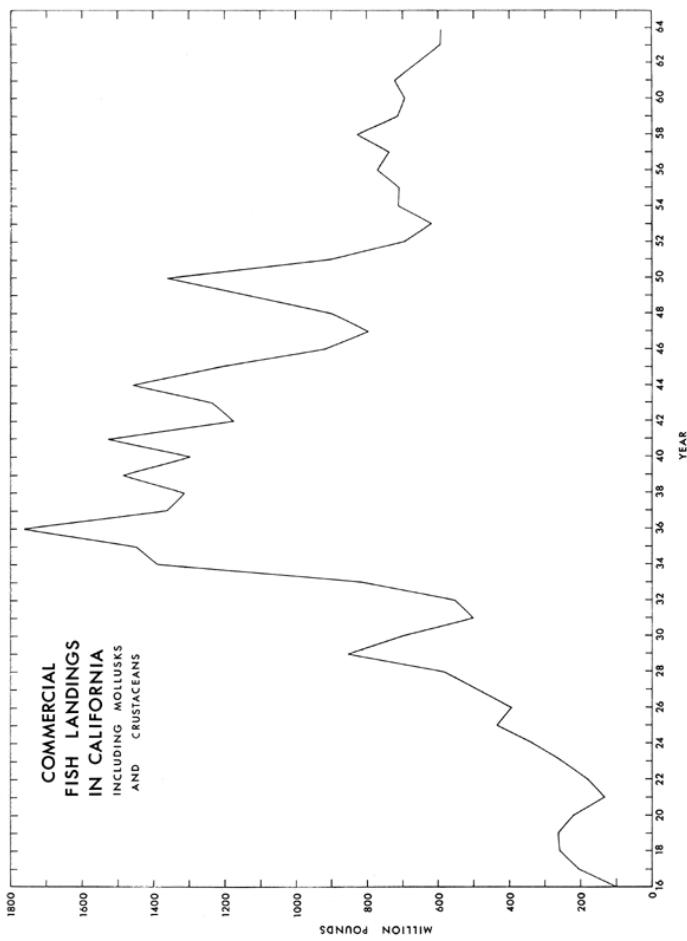


FIGURE 2. Total annual landings and shipments into California. Includes sardine deliveries to reduction ships, 1930–38 (see Table 2).

FIGURE 2. Total annual landings and shipments into California. Includes sardine deliveries to reduction ships, 1930–38 (see Table 2)

TABLE 2

Total Annual Landings and Shipments Into California of Commercial Fish, Mollusks, and Crustaceans, Includes Sardine Deliveries to Reduction Ships During 1930 Through 1938

Year	Thousands of pounds	Year	Thousands of pounds
1916	95,003	1941	1,529,148
1917	209,877	1942	1,173,414
1918	261,134	1943	1,234,049
1919	266,270	1944	1,459,446
1920	222,004	1945	1,216,467
1921	135,348	1946	919,850
1922	182,343	1947	795,499
1923	253,875	1948	900,540
1924	340,446	1949	1,135,325
1925	437,502	1950	1,386,596
1926	394,964	1951	904,088
1927	487,166	1952	694,977
1928	583,527	1953	618,899
1929	856,854	1954	713,406
1930	702,189	1955	710,714
1931	502,390	1956	772,549
1932	556,139	1957	738,550
1933	821,805	1958	832,919
1934	1,390,799	1959	713,491
1935	1,448,017	1960	694,663
1936	1,764,900	1961	725,253
1937	1,362,984	1962	663,107
1938	1,310,596	1963	592,899
1939	1,486,535	1964	591,131
1940	1,297,517		

TABLE 2

Total Annual Landings and Shipments Into California of Commercial Fish, Mollusks, and Crustaceans, Includes Sardine Deliveries to Reduction Ships During 1930 Through 1938

TABLE 3

Landings and Shipments of Leading Species Ranked by Pounds

1963				1964			
Species	Rank	Thousands of pounds	Thousands of dollars	Species	Rank	Thousands of pounds	Thousands of dollars
Yellowfin tuna	1	162,326	\$23,461	Yellowfin tuna	1	202,856	\$28,678
Skipjack	2	106,285	11,411	Jack mackerel	2	89,693	2,109
Jack mackerel	3	95,442	1,989	Albacore	3	74,721	12,266
Albacore	4	65,805	10,710	Skipjack	4	72,554	7,227
Pacific mackerel	5	40,243	861	Bluefin tuna	5	26,832	3,385
Bluefin tuna	6	32,702	3,724	Pacific mackerel	6	26,828	666
Rockfish	7	11,761	683	Squid	7	16,434	333
Squid	8	11,561	240	Sardine	8	13,137	500
Dover sole	9	9,782	599	Salmon	9	10,175	5,374
Salmon	10	8,035	4,110	Dover sole	10	9,265	560
Sardine	11	7,131	299	Rockfish	11	8,118	490
Anchovy	12	4,570	78	Anchovy	12	4,975	82
Abalone	13	4,354	627	English sole	13	4,593	354
English sole	14	4,254	329	Abalone	14	4,079	573
Pacific bonito	15	4,022	113	Petrale sole	15	2,698	323
Petrale sole	16	3,318	400	Sablefish	16	2,644	203
Ocean shrimp	17	2,093	202	Pacific bonito	17	2,612	66
Sablefish	18	1,998	136	Market crab	18	1,815	618
Market crab	19	1,951	688	Miscellaneous (animal food)	19	1,738	35
Rex sole	20	1,566	108	Rex sole	20	1,411	95
All others		13,700	2,050	All others		13,953	2,244
Totals		592,899	\$62,818	Totals		591,131	\$66,181

TABLE 3

Landings and Shipments of Leading Species Ranked by Pounds

TABLE 4
Number of Licensed Commercial Fishermen

Area of residence	License year*	
	1963-64	1964-65
Eureka.....	1,195	1,277
Sacramento.....	190	239
San Francisco.....	1,284	1,396
Monterey.....	684	694
Santa Barbara.....	659	761
Los Angeles.....	2,163	2,132
San Diego.....	1,736	1,750
Alaska, Washington and Oregon fishermen licensed in California.....	523	532
Mexican nationals licensed in California.....	64	83
Other.....	46	49
Totals.....	8,544	8,913

* April 1 to March 31.

TABLE 4
Number of Licensed Commercial Fishermen

TABLE 5

Number of Registered Fishing Boats by Length

License year*	Up to 24 feet	25 to 39 feet	40 to 64 feet	65 to 84 feet	85 to 99 feet	100 feet and over	Total
1963-1964.....	852	1,698	1,050	109	37	96	3,842†
1964-1965.....	1,021	1,679	1,108	121	35	98	4,062‡

* April 1 to March 31.

† The owners of 523 boats were issued fishing party licenses in 1963-64.

‡ The owners of 462 boats were issued fishing party licenses in 1964-65.

TABLE 5
Number of Registered Fishing Boats by Length

TABLE 6
Origin of Shipments of Fresh Fish Into California During 1964

Shipped from:	Species	Pounds shipped to each area				Total pounds
		San Francisco	Monterey	Los Angeles	San Diego	
Continental United States:						
Sturgeon		92,000	---	32,585	---	32,585
Miscellaneous		92,000	---	---	---	92,000
Oregon, Washington, Canada and Alaska:						
Cod, King		21,492	---	20,169	---	21,492
Sablefish		---	---	693,942	---	20,169
Salmon		---	---	71,105	---	693,942
Shad		3,365	---	4,105	---	74,470
Smelt		---	---	3,224	---	4,105
Sturgeon		---	---	141,975	---	3,224
Miscellaneous		---	---	141,975	---	141,975
Mexico and Central America:						
Barracuda, California		---	---	803	---	803
Halibut, California		---	---	3,120	---	3,120
Seabass, white		---	---	737	---	737
Shad		---	---	1,520	---	1,520
Tuna, bluefin		---	---	69,159	---	69,159
Tuna, skipjack		---	---	1,349,815	199,318	1,549,133
Tuna, yellowfin		---	---	1,141,413	---	1,141,413
Miscellaneous		---	---	152	---	152
South America:						
Tuna, skipjack		---	---	2,176,167	1,698,732	3,874,899
Tuna, yellowfin		---	---	5,149,461	201,439	5,350,900
Japan:						
Sablefish		1,804,676	---	160,000	---	160,000
Tuna, albacore		62,712	---	26,500,712	187,805	28,403,193
Tuna, bigeye		6,047,981	---	27,935	---	90,617
Tuna, yellowfin		81,860	---	35,372,275	99,187	41,519,143
Australia:						
Tuna, albacore		---	---	2,733	---	2,733
Tuna, bluefin		8,040	---	3,591,522	---	3,591,522
Tuna, skipjack		1,359,421	---	---	---	8,040
Tuna, yellowfin		1,359,421	---	137,740	---	81,860
China (Formosa):						
Tuna, albacore		403,726	---	275	---	404,001
Tuna, bigeye		250,673	---	---	---	250,673
Tuna, yellowfin		1,117,024	---	137,740	---	1,497,161
Malaya:						
Tuna, albacore		251,727	---	2,862,934	---	3,114,661
Tuna, bigeye		143,843	---	92,822	---	236,665
Tuna, yellowfin		1,117,024	---	2,026,259	---	4,043,283
South Pacific Islands:						
Tuna, albacore		---	---	93,115	---	93,115
Tuna, skipjack		---	---	1,055,957	---	1,055,957
Tuna, yellowfin		---	---	165,198	---	165,198
Java:						
Tuna, skipjack		---	---	7,297	---	7,297
Tuna, yellowfin		---	---	36,658	---	36,658
Africa:						
Tuna, albacore		---	---	62,250	---	62,250
Total pounds		11,648,240	4,105	83,951,089	2,386,481	97,989,915

TABLE 6
Origin of Shipments of Fresh Fish Into California During 1964

TABLE 7
Origin of Commercial Fish Landings and Volume of Shipments Into California During 1964

Species	Landings of catches from				Shipments*	Grand total
	California waters	Waters north of State	Waters south of State	Total pounds		
Fish:						
Anchovy	4,975,089	---	83,115	4,975,089	803	4,975,089
Barrauda, California	251,025	---	334,140	334,140	803	334,043
Blacksmith	145,143	---	145,143	145,143	---	145,143
Bonito, Pacific	2,606,411	---	5,858	2,612,269	---	2,612,269
Cabezon	5,281	---	5,281	5,281	---	5,281
Cabrilla, spotted	13,592	13,592	13,592	13,592	---	13,592
Carp	194,527	194,527	194,527	194,527	---	194,527
Croaker, white	838,512	72	838,584	838,584	---	838,584
Flounder	418,932	2,054	420,986	420,986	---	420,986
Flounder, arrowtooth	9,735	---	9,735	9,735	---	9,735
Flyingfish	85,910	85,910	85,910	85,910	---	85,910
Grouper	164,030	164,030	164,030	164,030	---	164,030
Hake, Pacific	111,529	111,529	111,529	111,529	---	111,529
Halfmoon	10,023	20	10,043	10,043	---	10,043
Halibut, California	1,092,068	184,037	1,276,105	1,276,105	3,120	1,279,225
Halibut, Pacific	3,040	3,040	3,040	3,040	---	3,040
Hardhead	156,847	156,847	156,847	156,847	---	156,847
Herring, Pacific	349,270	349,270	349,270	349,270	---	349,270
Lingcod	810,301	25,375	701	836,377	---	836,377
Mackerel, jack	89,672,911	20,000	89,692,911	89,692,911	---	89,692,911
Mackerel, Pacific	26,827,216	665	26,827,881	26,827,881	---	26,827,881
Opaleye	2,001	2,001	2,001	2,001	---	2,001
Perch	131,359	1,756	133,115	133,115	---	133,115
Pompano, Pacific	121,222	121,222	121,222	121,222	---	121,222
Rockfish	7,850,373	193,489	74,050	8,117,912	---	8,117,912
Sablefish	2,419,191	44,206	55	2,463,452	180,169	2,643,621
Salmon	9,481,215	---	9,481,215	9,481,215	603,942	10,175,157
Sanddab	587,179	1,858	489	589,528	---	589,528
Sardine	13,137,483	---	13,137,483	13,137,483	---	13,137,483
Sculpin	77,585	16,640	16,640	94,225	---	94,225
Sea bass, giant	14,018	208,697	222,715	222,715	---	222,715
Seabass, white	550,817	840,264	1,391,081	1,391,081	797	1,391,878
Shad	---	---	74,470	74,470	---	74,470
Shark	606,402	40,167	646,569	1,520	648,089	648,089
Sheepshead, California	13,404	4,530	17,934	17,934	---	17,934
Skate	222,705	222,705	222,705	222,705	---	222,705
Smelt	414,039	414,039	414,039	414,039	4,105	418,144
Smelt, whitebait	191,215	191,215	191,215	191,215	---	191,215
Sole, Dover	8,593,526	671,712	9,265,238	9,265,238	---	9,265,238
Sole, English	4,544,028	48,724	4,592,732	4,592,732	---	4,592,732
Sole, petrale	2,664,302	33,368	2,697,670	2,697,670	---	2,697,670
Sole, rex	1,394,180	16,467	1,410,647	1,410,647	---	1,410,647
Sole, sand	336,197	---	336,197	336,197	---	336,197
Sole, miscellaneous	46,946	268	47,265	47,265	---	47,265
Sturgeon	---	---	25,809	25,809	---	25,809
Swordfish	177,306	5,717	183,023	183,023	---	183,023
Tuna, albacore	33,867,847	8,683,164	42,551,011	32,169,953	74,720,661	74,720,661
Tuna, bigeye	---	---	577,985	577,985	---	577,985
Tuna, bluefin	4,655,330	18,515,928	23,171,258	3,660,681	26,831,939	26,831,939
Tuna, skipjack	3,988	66,054,966	66,055,954	6,405,326	72,554,280	72,554,280
Tuna, yellowfin	84	149,020,029	149,020,113	53,835,616	202,855,729	202,855,729
Turbot	92,810	470	93,280	93,280	---	93,280
Wahoo	---	4,248	4,248	4,248	4,248	4,248
Whitefish, ocean	975	796	1,771	1,771	---	1,771
Yellowtail, California	25,878	84,221	110,099	110,099	---	110,099
Miscellaneous	1,293	141	1,434	1,434	234,127	235,561
Miscellaneous (animal food)	1,669,940	68,501	1,738,441	1,738,441	---	1,738,441

TABLE 7
Origin of Commercial Fish Landings and Volume of Shipments Into California During 1964

TABLE 7—Continued
Origin of Commercial Fish Landings and Volume of Shipments Into California During 1964

Species	Landings of catches from				Shipments*	Grand total
	California waters	Waters north of State	Waters south of State	Total pounds		
Crustacean:						
Crab, king.....	1,815,363	----	----	1,815,363	21,402	21,492
Crab, market.....	263,885	----	----	263,885	----	1,815,363
Crab, rock.....	446,655	----	----	446,655	----	263,885
Lobster, spiny.....	5,775	----	----	5,775	----	446,655
Prawn.....	968,325	131,822	----	1,100,147	----	5,775
Shrimp, ocean.....					1,100,147	
Mollusk:						
Absalone.....	4,079,223	----	----	4,079,223	----	4,079,223
Clam, Washington.....	4,133	----	4,133	4,133	----	4,133
Octopus.....	38,691	----	38,691	38,691	----	38,691
Oyster, eastern.....	4,910	----	4,910	4,910	----	4,910
Oyster, giant Pacific.....	1,354,737	----	1,354,737	1,354,737	----	1,354,737
Squid.....	16,433,624	----	16,433,624	16,433,624	----	16,433,624
Miscellaneous mollusk.....	467	----	467	467	----	467
Total pounds.....	247,874,396	1,238,314	244,027,999	493,140,709	97,989,915	591,130,624

* For origin of shipments refer to Table 6.

TABLE 7
Origin of Commercial Fish Landings and Volume of Shipments Into California During 1964

TABLE 8

Monthly Landings and Shipments Into California During 1964

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS:													
Fish:													
Anchoa	349,063	57,605	320,737	219,100	501,840	327,508	439,091	612,677	605,673	885,750	512,031	114,005	4,975,089
Barracuda, California	61	15,243	10,869	75,795	31,473	87,215	7,868	7,573	1,121	22,542	46,916	27,458	334,140
Bass, California								100,000	100,000	25,000	100,000	100,000	145,000
Bonito, Pacific	73,842	199,497	1,388	588	6,512	311,294	421,087	430,272	648,883	325,903	102,651	90,552	2,612,280
Cabonet	914	559	198	594	351	11,294	4	4	319	1,803	321	321	5,281
Catfish, spotted	10,175	2,218	265	140	64	720							15,592
Carp		51,088	24,000	12,000	10,000	6,500	7,000	11,300	37,300	10,000	11,550	14,390	191,777
Cod, silver, white	103,426	40,898	78,537	53,440	67,529	61,731	23,263	19,385	31,110	27,942	30,588	300,765	838,584
Flounder	71,850	115,874	34,782	21,873	15,492	18,636	16,363	17,645	46,194	28,636	9,276	21,485	420,986
Fluke, arrowtooth	---	409	479	3,391	3,750	1,350	1,350	1,350	1,350	400	---	468	7,300
Flyingfish													88,910
Grouper	57,173	15,442	26,061	1,314	6,540	9,650	1,185	1,185	1,185	10,705	34,978	16,030	147,411
Hake, Pacific	2,465	1,800	4,457	21,839	22,530	34,447	14,696	6,985	6,985	1,860	1,860	100	111,529
Hake, California	31	31	31	31	31	31	31	31	31	31	31	31	1,100
Halibut, California	174,155	207,096	124,222	61,055	49,512	77,530	127,896	99,910	67,581	76,587	91,208	118,223	1,276,104
Halibut, Pacific													22
Hardhead	8,419	27,100	38,005	12,995	12,450	13,300	1,203	3,300	1,600	10,150	6,375	18,650	156,847
Herring, Pacific	8,416	7,969	8,440	11,186	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	140,270
Lingcod	16,700	23,886	26,460	53,000	79,371	123,335	133,000	99,859	101,237	100,364	60,107	26,937	836,277
Mackerel, jack	144,191	3,203,398	8,846,555	6,110,181	3,054,820	14,004,877	4,670,359	6,606,985	11,464,055	14,613,182	10,928,888	6,144,017	89,692,911
Mackerel, Pacific	301,488	442,099	305,415	11,40,060	486,151	2,154,523	3,909,512	4,136,847	6,574,701	4,564,701	2,737,059	75,325	26,827,881
Ophidion	8,414	1,381	1,381	1,381	1,381	1,381	1,381	1,381	1,381	1,381	1,381	1,381	11
Porcupine	14,814	14,303	20,955	25,511	230	1,212	13,871	13,818	12,291	3,209	6,917	5,127	132,115
Pompano, Pacific	955	1,659	4,373	1,905	6,990	7,816	3,814	1,974	48,392	2,315	7,840	32,889	121,222
Rockfish	741,071	945,978	809,678	589,800	674,116	786,800	669,943	630,031	709,817	877,312	580,608	426,156	8,117,912
Sabrefish													3
Sardine	46,614	198,692	137,073	151,908	222,000	241,811	289,862	176,562	245,762	430,462	210,206	110,202	2,463,213
Sardina													9,463,213
Sardidab	15,139	23,131	52,305	67,098	67,031	62,510	71,091	59,556	67,528	40,252	33,703	19,882	889,526
Sardine	128,315	331,185	163,971	447,081	348,840	632,640	133,380	378,015	7,547,370	1,497,003	960,885	271,328	13,137,483
Sardine	11,860	8,787	2,570	4,177	2,710	6,009	15,981	15,841	10,986	4,111	2,691	2,691	9,281

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TABLE 8

Monthly Landings and Shipments Into California During 1964

Sea bass, giant	25,107	20,264	23,696	25,072	6,031	12,541	20,803	5,471	16,594	21,693	16,910	26,223	222,715														
Seabass, white																											
Shark	58,383	10,286	11,643	11,034	17,787	83,488	27,562	21,137	12,387	12,962	12,280	12,280	42,161	1,384,981													
Sheepshead, California	16,438	31,433	31,361	29,763	78,762	99,075	52,562	54,064	30,279	48,390	34,275	47,797	41,040	1,446,569													
Shad	3,118	4,471	575	229	434	1,275	1,888	1,736	853	1,614	701	1,040	17,533														
Shale	18,762	27,997	29,168	25,889	24,972	21,171	17,862	15,429	15,383	10,905	9,855	9,575	222,705														
Sole, blacktail																											
Sole, whitetail	10,326	34,364	11,394	20,751	29,110	24,387	31,052	30,366	36,236	45,907	11,237	5,665	411,639														
Sole, Dover	67,416	489,868	765,189	583,194	918,165	992,818	1,173,110	959,847	1,072,278	1,477,190	602,649	137,487	9,065,338														
Sole, green	224,090	183,866	183,518	143,743	209,012	209,152	211,164	204,858	217,384	115,856	115,190	115,190	1,220,752														
Sole, petraleo	108,999	112,425	188,585	296,784	299,177	336,553	245,120	185,496	229,610	263,912	230,229	202,783	2,697,670														
Sole, rex	117,022	135,915	103,998	91,333	107,844	112,681	138,260	126,836	133,845	144,521	118,268	81,121	1,410,647														
Sole, sand	88,833	101,856	23,830	10,545	5,759	3,057	5,810	5,556	15,158	23,738	16,123	35,032	336,197														
Sole, miscellaneous	1,918	2,094	4,728	3,796	6,285	7,719	3,942	3,754	4,136	7,005	3,221	47,265															
Skatefish																											
Tuna, albacore	7,234	-----	-----	-----	-----	-----	3,560,103	14,777,247	9,191,808	9,511,809	5,175,225	324,487	42,851,011														
Tuna, bluefin		-----	-----	-----	-----	-----	48,719	505,378	4,626,013	8,608,441	6,472,337	2,410,418	430,533	65,858	23,171,238												
Tuna, skipjack	7,227,225	3,728,539	7,146,530	3,305,555	6,055,792	6,271,165	21,118,803	5,754,186	3,380,015	7,489,462	3,554,712	2,226,739	66,600,690	149,020,113													
Tuna, yellowfin	9,436	11,048,763	80,396,932	21,557,010	22,848,524	21,101,540	10,854,869	7,069,263	4,039,108	14,186,920	10,820,113	10,744	9,520	1,778,441													
Turbot	11,295	19,699	13,725	5,815	3,057	1,077	4,454	4,296	5,415	4,502	6,208	1,859	4,248														
Whiting ocean		89	93	87	97	100	61	97	191	841	1,771																
Yellowtail, California	7,344	3,225	6,922	7,489	9,071	10,714	2,455	3,527	9,398	12,489	18,248	18,248	1,160,693														
Miscellaneous	212	251	21	11	123	154	409	153	153	70	30	1,434															
Miscellaneous (animal food)	118,007	46,190	56,250	61,673	134,442	105,124	282,227	333,789	191,184	323,415	46,973	36,167	1,738,441														
Total pounds.....	[21,941,882]	[25,397,971]	[41,259,906]	[38,735,541]	[41,621,822]	[55,662,846]	[43,726,069]	[56,540,685]	[55,778,078]	[51,197,324]	[33,303,532]	[29,974,860]	[433,140,709]														

TABLE 8—CONT'D.

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TABLE 8—Cont'd.

Crustaceans	350,164	151,586	118,558	91,650	67,305	32,518	3,364	-----	-----	-----	-----	311,400	554,427	1,815,363												
Crab, rock	15,458	21,340	20,575	26,656	16,350	26,022	20,324	34,029	35,585	22,301	14,323	19,929	263,885													
Crab, spiny	72,726	38,216	18,838	11,456	14,026	11,185	11,105	13,860	13,242	16,350	92,264	60,973	4,627	3,072												
Prawns	2,386	904	108	-----	-----	211,149	285,850	230,583	365,425	1,660	4,880	-----	-----	-----												
Shrimp, ocean																										
Mollusk																										
Ashley	178,080	-----	251,925	37,650	409,246	327,831	527,627	514,831	345,593	503,940	368,723	272,655	4,079,222													
Ocean, Washington	28	1,702	1,163	1,342	3,690	3,220	2,113	460	421	285	45	193	437	38,691												
Octopus	10,633	12,747	4,445	3,690	-----	-----	-----	-----	-----	-----	369	550	4,510													
Oyster	393	393	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
Oyster, giant Pacific	131,049	135,285	126,623	106,759	105,174	94,383	54,682	55,486	82,310	156,594	178,392	141,613	1,354,737													
Squid	660,670	998,340	206,011	829,975	2,603,629	2,622,475	1,718,169	1,517,147	388,737	44,100	1,038,625	3,228,553	16,833,624													
Macrourid mollusk	49	49	49	32	32	12	34	34	38	14	14	14	457													
Total pounds.....	[21,941,882]	[25,397,971]	[41,259,906]	[38,735,541]	[41,621,822]	[55,662,846]	[43,726,069]	[56,540,685]	[55,778,078]	[51,197,324]	[33,303,532]	[29,974,860]	[433,140,709]													

TABLE 8—CONT'D.

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TABLE 8—Continued
Monthly Landings and Shipments Into California During 1964

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds	
SHIPMENTS:^a														
Fish:														
Barracuda, California	600	528	276	839	803	
Halibut, California	440	1,241	839	15,369	6,800	110,000	3,120	180,169	
Salmon	50,000	45,903	14,777	5,488	45,758	33,100	29,505	7,836	35,897	95,154	379,961	680,942	
Seabass, white	75	639	83	707	707	
Shad	50,000	50	22,405	2,065	74,470	74,470	
Smelt	43	50	29,218	7,218	411	1,530	1,530	
Sturgeon	1,612	1,612	1,820	1,260	1,025	4,105	4,105	
Tuna, albacore	3,227,882	1,729,153	2,123,859	2,309,920	2,023,036	3,140,196	1,276,122	1,361,772	3,009,778	20,327	12,328	35,809	32,105,353	
Tuna, bigeye	103,462	11,016	71,920	10,050	103,790	60,830	57,051	31,921	12,353	377,088	377,088	
Tuna, skipjack	1,759,898	138,987	2,818,809	60,830	69,159	603,720	74,734	1,255,275	482,023	3,660,081	6,465,326	
Tuna, yellowfin	5,847,396	3,294,158	2,996,612	861,279	7,391,090	3,091,100	41,172,000	4,900,555	3,547,401	6,184,000	4,837,014	2,511,753	4,983,000	55,400,010
Miscellaneous	36,750	30,000	30,000	30,000	30,000	30,000	32,053	67	36,000	53,373	234,127	
Crustacean:														
Crab, king	21,492	21,492	
Total pounds	11,164,840	5,260,666	5,196,294	11,196,715	5,938,369	10,469,514	6,319,911	5,637,336	11,545,479	8,360,815	8,280,899	8,605,000	97,598,915	
Grand total	33,106,722	28,858,637	46,455,800	49,932,259	47,563,191	66,132,360	50,068,010	61,978,021	67,323,557	59,000,709	49,000,709	38,569,550	644,400,000	

* For origin of shipments refer to Table 6.

59,558,139 41,584,348 591,130,694

TABLE 8
Monthly Landings and Shipments Into California During 1964

TABLE 9
Monthly Landings of Commercial Fishing Boats in the Eureka Area During 1964

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
<i>California waters:</i>													
<i>Fish:</i>													
Cabazon.....	397	181	8,651	10,572	6,555	11,540	12,198 ⁴	15,011	19,403	2,751	522	1,058	89,458
Flounder, arrowtooth.....	409	25	3,011	30	3,790	493	—	—	180	255	—	468	9,055
Halibut, California.....	291	40	25	30	—	—	—	—	—	—	—	—	392
Herring, Pacific.....	—	—	—	—	578	670	975	360	401	55	—	—	3,040
Lingcod.....	1,471	—	320	—	—	—	—	—	—	—	—	—	20
Mackerel, jack.....	8,653	8,232	6,681	32,539	35,723	61,403	10,183	60,739	52,882	48,448	16,993	2,290	432,337
Pacific rockfish.....	28,653	124,419	109,405	163,702	108,275	147,928	211,701	204,414	138,566	297,141	127,694	29,772	860
Rockfish.....	—	—	—	—	—	—	—	—	—	—	—	—	44,121
Sablefish.....	10,743	15,147	36,176	70,900	117,760	85,350	127,107	101,372	93,231	25,346	105,120	25,313	1,032,471
Salmon.....	—	—	—	—	101,966	1,299,587	1,053,508	1,773,358	1,105,745	89,038	—	—	5,425,263
Shark.....	462	4,121	5,114	7,348	16,425	30,241	31,029	20,977	19,031	9,310	5,330	231	146,160
Skate.....	—	—	812	165	7,030	10,020	7,165	4,885	—	377	82	64	30,933
Smelt.....	40	15,250	10,573	4,354	13,063	27,523	53,923	47,652	18,932	8,690	—	—	230,000
Sole, anchovet.....	10,250	34,602	10,423	17,582	24,946	32,900	31,297	26,562	23,290	—	—	—	180,500
Sole, Dover.....	34,420	13,070	110,700	208,262	100,060	57,920	52,920	83,155	75,303	1,169,497	407,099	50,503	5,580,531
Sole, English.....	7,360	46,000	77,524	158,092	111,687	152,522	307,715	283,832	207,545	221,965	174,825	3,879	1,733,766
Sole, peacock.....	70,859	34,240	40,052	73,146	100,071	126,158	132,000	67,182	101,242	137,072	59,399	82,261	1,031,519
Sole, rex.....	28,820	21,648	27,081	43,174	58,019	68,983	91,098	75,771	62,299	81,230	42,835	—	22,255
Sole, sand.....	—	—	234	299	2,780	1,040	1,562	5,040	2,400	235	130	—	15,541
Sole, miscellaneous.....	—	—	—	—	—	—	6	—	—	—	—	—	6
Tuna, albacore.....	—	—	—	—	—	—	15,540	1,822,261	1,619,571	1,248,217	41,758	—	4,750,118
Tuna, yellowfin.....	36	—	—	182	—	140	—	1,948	—	3,209	885	—	8,889
Miscellaneous (animal food).....	—	—	—	—	—	16,476	161,880	247,710	79,394	249,740	25,229	3,098	783,527
Crustacean:													
Crab, rock.....	230,882	95,277	107,243	85,486	62,507	19,377	3,364	—	—	—	—	380,301	984,140
Shrimp, ocean.....	825	775	990	1,250	1,100	1,100	1,290	800	800	500	—	—	9,230
Mollusk:													
Oyster, Washington.....	26	1,700	1,053	1,242	—	—	—	—	—	—	—	—	4,133
Oyster, Oregon.....	335	2,202	288	454	770	543	88	36	—	—	—	—	4,815
Oyster, giant Pacific.....	96,380	85,342	88,549	55,157	65,413	60,954	26,807	26,103	51,280	126,357	133,653	82,417	89,512
Total pounds.....	529,903	607,502	646,151	1,105,431	2,779,781	2,658,839	4,128,281	5,300,768	3,342,325	3,808,778	1,145,721	684,757	26,760,279

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TABLE 9
Monthly Landings of Commercial Fishing Boats in the Eureka Area During 1964

TABLE 9—Continued
Monthly Landings of Commercial Fishing Boats in the Eureka Area During 1964

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds	DISH BULLETIN
Waters north of State:														
Fish:														
Lounder.....	540	318	49	75	530	2,428	7,556	2,583	57	146	2,051	25,375
Lingcod.....	158	465	969	2,428	7,556	2,583	57	146	5,207	5,969	153,480	153,480
Rockfish.....	39,461	24,308	32,051	13,745	20,272	17,774	15,207	19,324	10,260	14,200	13,244	14,200	1,888	1,888
Sardines.....	100	100	97	3,470	2,740	5,326	2,056	13,244	409
Sanddab.....	10	180	96	70	1,057	56
Sole, Dover.....	1,611	93,203	86,846	176,342	56,179	50,005	145,218	53,308	671,712	48,724	48,724
Sole, English.....	5,130	5,332	5,470	2,837	11,089	2,803	8,852	7,121	53,265	53,265
Sole, Rex.....	1,714	4,092	1,152	1,217	1,217	1,217	1,236	6,474	3,905	389	113	113	16,467	16,467
Sole, Miscellaneous.....	160	619	3,298	1,801	4,905	1,307	1,236	2,968	470
Turbot.....	470	268
Miscellaneous (animal food).....	14,721	25,625	28,155	68,501	68,501
Crustacean:														
Shrimp, ocean.....	30,000	45,500	45,100	10,222	131,822	131,822
Total pounds.....	47,653	37,493	148,478	144,646	277,913	152,637	10,222	123,408	229,118	66,714	1,238,314	1,238,314
Grand total.....	529,909	555,187	683,844	1,253,909	2,924,430	2,966,782	4,280,921	5,312,990	3,465,733	4,127,696	1,212,435	684,757	27,998,593	27,998,593

TABLE 9
Monthly Landings of Commercial Fishing Boats in the Eureka Area During 1964

TABLE 10
Monthly Landings and Shipments of Commercial Fish Into the San Francisco Area During 1964 *

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds	Marine Fish Catch for 1964	
LANDINGS FROM: California waters:															
Fish															
Anchoa	12,807	31,453	9,438	10,000	9,350	3,260	4,500				3,000	30,110			
Carp, common	1,013	685	1,325	282	10,500	9,500	17,760	11,300	37,400	10,500	11,550	184,827			
Carp, white	1,013	685	1,325	282	980	1,070	1,763	1,193	13,000	3,400	1,050	305	17,177		
Flounder	55,090	69,604	13,170	3,067	1,369	1,659	1,783	1,379	19,934	19,422	7,092	19,207	233,776		
Flounder, arrowtooth	-----	-----	220	-----	-----	315	-----	-----	-----	145	-----	-----	680		
Hake, Pacific	2,493	-----	1,656	9,403	1,495	2,475	1,940	4,358	1,468	6,352	7,438	11,458	17,820		
Hake, California	44,211	61,613	6,570	7,005	2,000	3,275	1,940	4,358	1,468	6,352	7,438	11,458	17,820		
Halibut	8,419	27,100	38,005	12,995	12,450	13,300	1,203	3,300	1,600	10,150	9,375	18,950	156,847		
Herring, Pacific	8,463	7,316	8,440	8,452	8,452	8,452	8,452	8,452	8,452	8,452	8,452	8,452	20,874		
Herring, Sardine	13,411	11,571	8,552	11,963	30,354	42,657	18,834	33,387	37,404	38,871	18,779	19,754	216,648		
Mackerel, jack	38	1,000	1,853	4,202	5,926	102	523	1,328	1,172	639	216	615	1,097		
Perch	232,201	288,162	85,482	65,452	11,417	157,911	77,334	64,107	19,024	230,992	156,553	101,185	1,750,317		
Pike	15,591	13,040	85,789	50,543	45,953	70,301	99,653	36,200	76,532	50,000	70,000	61,547	120,261		
Salmon	-----	-----	372,146	237,082	854,400	1,393,114	584,782	65,940	-----	-----	-----	-----	3,607,464		
Sardines	11,745	16,759	29,185	36,965	36,615	19,405	26,120	29,670	38,460	19,787	26,748	17,384	308,823		
Sardine, white	-----	-----	31	-----	-----	-----	-----	-----	4,990	4,381	-----	-----	31		
Shark	10,795	7,546	8,782	6,101	8,306	11,244	4,445	16,510	17,472	15,329	16,309	10,455	136,324		
Skate	13,400	18,020	14,373	7,950	6,550	5,350	6,400	5,300	7,550	6,300	7,875	7,500	107,370		
Smelt	4,501	25,634	36,930	6,026	5,675	3,184	1,829	2,073	2,424	1,757	120	-----	88,157		
Spiny, whitebait	59	59	141	141	141	141	141	141	141	141	141	141	141	141	
Sole, Dover	32,990	498,890	666,074	228,470	229,846	204,498	214,924	70,814	238,780	190,715	136,602	81,386	2,737,004		
Sole, English	17,020	20,920	98,715	121,889	121,889	121,889	121,889	121,889	121,889	21,000	21,000	21,000	21,000	21,000	
Tuna	29,956	55,888	68,717	77,815	79,263	62,889	51,255	94,245	80,900	62,077	151,613	104,221	918,109		
Sole, rex	31,525	61,412	42,450	32,105	34,510	34,433	31,905	35,850	57,101	42,104	31,468	21,311	45,783		
Sole, sand	67,871	75,243	15,665	3,378	1,611	2,365	420	2,715	14,695	22,442	15,533	31,346	256,284		
Sole, sandal	-----	-----	14	14	12	116	176	176	737	124	181	658	2,413		
Sole, miscellaneous	-----	-----	-----	-----	-----	-----	-----	303,046	61,923	367,241	382,273	1,393,293			
Turbot	4,465	11,620	5,090	3,040	940	1,035	3,195	4,296	5,215	2,799	5,988	10,205	57,958		
Miscellaneous	69	122	21	-----	13	74	74	74	74	74	74	74	74		
Miscellaneous (animal food)	-----	-----	-----	-----	-----	830	11,505	3,025	7,605	7,155	5,284	6,923	42,517		

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TABLE 10
Monthly Landings and Shipments of Commercial Fish Into the San Francisco Area During 1964

TABLE 10—Continued

Monthly Landings and Shipments of Commercial Fish Into the San Francisco Area During 1964 *

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS:—Continued													
California Waters:—Continued													
Crustacean:													
Crab, market	127,141	55,813	9,537	5,430	4,510	13,129	---	---	---	---	430,153	175,296	821,000
Crab, rock	---	98	---	---	2,849	500	17,823	7,750	1,180	4,880	---	---	98
Shrimp, ocean	---	---	---	---	---	---	---	---	---	---	---	---	34,982
Mollusk:													
Abalone	713	4,880	3,738	3,296	4,959	10,018	4,733	1,775	2,259	417	1,933	38,721	
Octopus	5,739	8,916	3,545	2,960	1,752	1,020	250	385	165	65	553	25,377	FISH
Oyster, giant	30,440	2,032	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,910
Oyster, giant Pacific	17,475	20,512	19,963	17,712	15,819	14,376	11,598	17,170	18,854	14,318	19,288	21,208	208,291
Total pounds	948,017	1,633,266	1,275,736	1,077,523	1,034,065	1,675,856	2,122,244	1,527,636	1,815,414	1,379,917	1,382,291	996,318	16,888,071
Waters south of State:													
Fish:													
Tuna, albacore	---	---	191,092	---	105,387	519,665	370,797	---	---	---	---	---	8,317
Tuna, skipjack	---	105,000	565,327	---	408,317	149,673	172,352	---	---	---	---	---	1,180,971
Tuna, yellowfin	---	---	---	---	---	---	---	---	---	---	---	---	1,511,669
Total pounds	---	195,000	786,419	---	513,704	660,368	551,466	---	---	---	---	---	2,705,957
SHIPMENTS:†													
Fish:													
Tuna, albacore	521,337	30,669	142,275	312,179	38,890	185,915	1,300	2,065	---	213,562	45,875	606,750	2,365
Tuna, bigeye	70,771	103,462	11,016	71,920	10,050	103,789	60,520	22,569	---	21,192	---	457,88	
Tuna, yellowfin	1,224,437	1,100,949	956,679	971,092	322,351	642,246	244,420	273,478	606,666	580,588	846,210	787,870	8,603,986
Miscellaneous	---	---	30,000	---	30,000	---	32,000	---	---	---	---	---	92,000
Crustacean:													
Crab, king	---	---	---	---	---	---	---	---	---	---	21,492	21,492	
Total pounds	1,819,545	1,235,080	1,178,970	1,355,191	413,200	933,250	339,005	327,210	942,250	794,150	894,277	1,416,112	11,948,240
Grand total	2,767,562	3,063,346	3,241,125	2,432,514	1,960,987	3,268,474	3,012,715	1,854,836	2,757,684	2,174,067	2,276,568	2,412,430	31,223,268

* Includes Sacramento area landings.

† For origin of shipments refer to Table 6.

TABLE 10
Monthly Landings and Shipments of Commercial Fish Into the San Francisco Area During 1964

TABLE 11
Monthly Landings and Shipments of Commercial Fish Into the Monterey Area During 1964

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM: California Waters:													
Fish:													
<i>Anchoa, Pacific</i>													
Anchoa, Pacific	328,087	17,000	89,900	42,500	294,500	115,333	208,790	250,375	361,228	820,584	277,832	27,200	2,833,229
<i>Cabron, Pacific</i>													
Cabron, Pacific	223	36	11	—	—	78	17	—	354	—	265	586	1,305
<i>Croaker, white</i>													
Croaker, white	390	8,100	3,929	13,913	6,828	11,966	15,585	9,763	7,230	2,843	1,981	8,139	87,925
<i>Hake, Pacific</i>													
Hake, Pacific	8,404	15,648	7,786	3,830	6,691	4,151	2,073	731	9,150	5,740	1,485	1,177	99,113
<i>Hake, Pacific, California</i>													
Hake, California	2,168	4,400	2,250	4,533	1,881	3,700	6,330	4,620	4,620	1,289	1,216	1,255	43,019
<i>Herring, Pacific</i>													
Herring, Pacific	1,206	1,317	2,555	4,100	5,700	5,991	3,500	3,448	5,940	4,017	16,102	1,255	318,273
<i>Mackerel, jack</i>													
Mackerel, jack	1,550	131,500	30,285	11,350	45,845	61,027	72,960	887,315	643,960	169,953	88,825	2,584,160	1,964
<i>Mackerel, Pacific</i>													
Mackerel, Pacific	198	830	9,165	6,092	50	275	50	547	1,814	147	—	—	2,558
<i>Perc, Pacific</i>													
Perc, Pacific	9	9	10	8,571	7,795	3,585	6,672	4,620	1,289	1,216	1,24	—	26,196
<i>Rockfish</i>													
Rockfish	178,032	150,729	61,375	110,524	259,767	262,960	233,404	242,375	202,676	170,194	151,811	151,487	2,146,762
<i>Sablefish</i>													
Sablefish	21,013	52,516	12,072	3,900	33,265	73,903	46,130	35,244	53,766	29,910	30,177	18,935	410,717
<i>Salmon</i>													
Salmon	2,880	1,447	—	93,108	62,273	105,039	56,793	48,796	11,382	—	—	—	378,421
<i>Sardine</i>													
Sardine	88,000	287,000	14,447	20,413	12,355	10,339	13,200	7,458	6,953	18,043	1,452	504	112,212
<i>Seabass, white</i>													
Seabass, white	102	101	32	199	112	7	28	47	23,000	1,542	755	385	26,338
<i>Sole, rock</i>													
Sole, rock	4,743	3,698	2,094	1,022	4,118	5,058	676	1,153	3,820	1,050	8,742	3,851	41,830
<i>Sole, sand</i>													
Sole, sand	2,832	1,459	1,400	10,599	8,281	7,795	8,472	7,613	5,250	4,000	1,910	1,875	77,828
<i>Sole, yellowtail</i>													
Sole, yellowtail	370	270	2,710	2,257	2,021	3,000	1,710	1,575	1,575	1,570	1,580	205	35,751
<i>Sole, Dover</i>													
Sole, Dover	5,493	5,045	9,280	14,820	15,765	14,378	3,270	890	205	—	—	67,116	1,964
<i>Sole, petrel</i>													
Sole, petrel	10,583	26,355	40,572	70,355	30,347	30,347	24,325	30,347	10,828	10,246	19,575	14,515	10,960
<i>Tuna, skipjack</i>													
Tuna, skipjack	—	—	—	—	175	915	—	—	104	—	—	—	104
<i>Turbot</i>													
Turbot	25	79	101	101	2	—	—	—	—	—	—	—	1,090
<i>Miscellaneous (animal food)</i>													
Miscellaneous (animal food)	3,150	4,570	555	2,650	8,300	7,400	4,000	6,775	1,300	2,625	2,575	2,680	48,880

TABLE 11—Continued
Monthly Landings and Shipments of Commercial Fish Into the Monterey Area During 1964

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM—Continued													
California Waters—Continued													
Crustacean:													
Crab, rock.....	650	3,207	1,311	145	63	1,284	771	7,704
Cray, rock.....	18	227	381	14	46	191	917	1,311	643	5,775
Prawn.....	2,298	904	108
Mollusk:													
Octopus.....	4,324	1,302	575	66	120	80	350	410
Oyster, giant Pacific.....	1,946	3,026	2,425,429	2,915,340	1,641,610	1,516,917	695	712	1,186	884	8,449
Miscellaneous mollusk.....	40	64	41	32	36	44	12	31	38	51	14	55	3,905
Total pounds.....	691,419	790,413	384,159	703,834	3,358,215	4,156,511	2,378,433	2,630,810	2,721,636	2,591,788	1,351,936	372,796	22,111,950
SHIPMENTS*													
Fish:													
Smelt.....	1,820	1,260	1,025	4,105
Total pounds.....	1,820	1,260	1,025	4,105
Grand total	691,419	790,413	384,159	703,834	3,358,215	4,156,531	2,378,693	2,630,810	2,721,636	2,592,813	1,351,936	372,796	22,116,055

* For origin of shipments refer to Table 6.

TABLE 11
Monthly Landings and Shipments of Commercial Fish Into the Monterey Area During 1964

TABLE 12
Monthly Landings of Commercial Fishing Boats in the Santa Barbara Area During 1964

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
<i>Fish</i>													
Anchova	6,913	1,343	35,872	—	—	1,100	—	—	—	15,940	601	—	1,100
Baracuda, California	—	—	—	—	—	2	223	941	3,410	4,734	1,895	101	561
Cabezon	691	473	185	594	273	—	—	—	—	—	729	303	11,956
Croaker, white	—	—	—	—	—	—	68	816	—	—	—	—	3,248
Flounder	7,059	8,303	4,827	2,326	903	417	309	624	548	198	176	65	28,885
Glass, Pacific	—	—	—	—	—	—	—	—	—	—	—	—	37,155
Haddock, California	46,797	39,548	35,505	26,626	23,169	22,592	41,629	23,079	28,716	26,433	21,754	34,766	371,218
Hake	—	—	—	—	—	—	—	—	—	—	—	—	—
Mackerel, jack	56,720	1,050,240	2,366	1,740	3,418	3,119	5,212	5,156	5,153	5,153	5,153	5,153	12,168,795
Mackerel, Pacific	—	—	—	—	—	—	—	—	—	—	—	—	—
Perch	3,734	3,893	2,159	6,560	13	—	1,593	2,670	1,213	643	2,407	3,070	848,380
Pompano, Pacific	—	—	—	—	—	—	—	1,942	2,670	1,213	643	2,407	27,970
Sablefish	226,121	238,694	161,550	89,997	119,156	122,003	90,150	62,476	143,442	132,910	103,818	93,743	1,884,298
Sabretooth	1,150	4,220	5,630	11,683	18,552	4,965	11,050	18	17,710	8,034	1,680	3,752	88,215
Salmon	—	—	—	—	—	—	—	—	—	—	—	—	177,029
Sardines	—	—	250	—	279	—	—	—	—	—	—	—	—
Sea bass, giant	23,000	—	149	36	45	70	52	30	299	22	288	38	984
Seabass, white	3,978	7,621	618	477	432	271	4,769	7,491	9,149	7,569	6,889	6,889	68,252
Shark	2,179	1,577	2,016	2,209	33,577	35,442	33,028	2,175	3,041	2,027	2,859	21,165	125,469
Skate, California	110	154	191	123	158	515	45	—	30	103	108	74	1,909
Skate	2,804	1,563	355	—	—	—	—	—	—	101	233	—	5,902
Sole, Dover	—	—	—	—	—	—	—	—	—	—	—	—	—
Sole	29,689	33,651	73,019	7,4215	53,247	81,299	25,520	7,755	5,903	5,433	2,566	2,701	207,575
Sole, petraleo	5,644	8,651	40,816	101,310	81,195	126,172	24,452	13,723	19,445	13,774	11,259	5,622	457,053
Sole, rtx.	30,157	18,655	12,360	4,896	5,247	980	3,690	11,160	9,262	4,440	15,817	10,282	124,898
Sole, sand	20,328	26,380	7,173	3,654	2,409	4,060	4,521	1,296	—	590	588	588	10,374
Sole, sword	—	—	—	—	—	—	—	17	—	—	—	—	68
Swordfish	—	—	—	—	—	—	—	4,173	6,213	4,851	—	—	15,237
Tuna, albacore	109	—	—	—	—	—	—	—	—	—	—	—	—
Turbot	6,694	7,605	8,483	2,600	1,05	42	215	—	—	818	220	2168	3,891,744
Yellowtail, California	—	—	—	—	—	—	—	51	—	17	—	—	68
Miscellaneous	18	—	5	—	—	—	—	—	—	—	—	—	41
Miscellaneous (animal food)	114,897	41,620	55,695	50,023	126,142	80,418	90,031	75,779	80,260	35,740	13,885	23,166	795,616

MARINE CATCH FOR 1964

TABLE 12
Monthly Landings of Commercial Fishing Boats in the Santa Barbara Area During 1964

TABLE 12—Continued
Monthly Landings of Commercial Fishing Boats in the Santa Barbara Area During 1964

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:—Continued													
California Waters.—Continued													
Crustacean:													
Crab, market.....	161	180	827	880	327	12	53	56	2,134	PUSH
Dungeness.....	7,681	11,276	9,287	17,248	8,277	11,810	2,517	18,108	20,613	9,491	2,456	1,423	BULLETIN
Lobster, spiny.....	27,310	18,132	9,603	19,872	13,158	15,694	103,771	152
Mollusk:													
Avalon.....	118,950	177,417	245,564	290,097	147,596	320,316	373,808	215,071	323,609	276,777	185,054	2,673,523	
Mussels.....	235	245	30	176	632	130	130	130	130	130	130	1,998	
Oyster, giant Pacific.....	17,191	20,495	20,011	26,864	23,942	19,033	15,677	12,213	11,481	15,207	24,265	37,104	243,483
Oysters.....	47,000	3,000	2,280	42,200	372,570	469,998
Miscellaneous mollusk.....	6	6	
Total pounds.....	755,207	1,806,507	1,384,693	985,255	851,702	1,021,754	888,411	3,124,791	4,988,820	4,059,628	3,805,741	2,860,298	26,127,807
Waters south of State:													
Fish:													
Mackerel, jack.....	10,000	10,000
Tuna, albacore.....	88	88
Total pounds.....	10,088	10,088
Grand total.....	755,207	1,806,507	1,384,693	985,255	851,702	1,021,754	888,411	3,124,791	4,988,820	4,059,628	3,805,741	2,860,298	26,127,805

TABLE 12
Monthly Landings of Commercial Fishing Boats in the Santa Barbara Area During 1964

TABLE 13
Monthly Landings and Shipments of Commercial Fish Into the Los Angeles Area During 1964

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Anchovy.....	20,290	30,485	229,248	166,000	207,310	201,725	227,041	362,403	239,045	65,175	234,199	113,803	2,107,355
Bass, California.....	4	8,140	1,776	33,716	29,762	36,080	6,789	1,154	1,160	1,561	1,150	1,150	133,532
Blacksmith.....	931	573	3,568	306,130	108,996	10,340	25,307	145,143	145,143
Bonito, Pacific.....	50,615	188,305	410,134	399,797	625,223	204,780	87,100	82,457	2,490,777	116	2,490,777
Cod, California.....	116	116
Crab, white.....	101,868	31,588	73,107	39,125	59,624	48,809	7,239	8,177	10,045	21,509	27,232	294,037	722,678
Flyingfish.....	101	13,000	22,413	37,744	12,567	186	85,910
Gallinule.....	94	10	2,000	2,000	3,717	3,086	1,146	1,146	8,848
Hake, California.....	47,094	80,068	65,771	19,732	6,029	16,132	10,410	13,103	8,100	13,042	40,906	30,471	30,471
Lingcod.....	40	151	72	49	67	110	25	25	33	47	47	594
Mackerel, jack.....	85,883	2,021,258	8,076,370	5,839,911	3,054,290	13,244,552	4,441,732	4,606,651	8,535,245	12,275,192	8,532,700	4,183,612	74,917,399
Mackerel, Pacific.....	301,239	441,812	305,290	1,139,542	485,596	2,184,823	3,909,020	4,125,540	5,934,985	4,364,080	2,773,059	75,325	25,972,510
Moray.....	132	59	59	59	52	19	19	5,001
Percy.....	3,053	2,884	1,122	229	65	937	1,184	380	7,989	1,187	3,290	504	22,814
Pompano, Pacific.....	955	1,354	4,373	870	3,117	6,060	1,546	68	1,727	831	7,780	32,889	61,770
Rockfish.....	58,872	91,282	40,130	69,832	42,743	35,906	21,257	23,652	7,428	16,014	19,831	30,747	457,394
Sablefish.....	151	112	112	112	112	112	112	112	112	112	112	112	112
Salmon.....	50	55	27	14	41
Sanddab.....	19	19	26
Sardine, California.....	15,315	34,185	463,971	417,059	285,090	630,828	129,005	217,510	7,059,199	1,346,667	932,703	125,278	11,888,711
Sculpin.....	106	451	162	307	419	2,710	3,678	4,205	2,263	575	715	220	16,110
Sea bass, giant.....	95	451	390	110	1,327	2,817	1,961	730	87	895	98	104	9,035
Sebastus, white.....	1,363	30,474	3,701	8,077	14,428	40,832	55,405	156,190	55,173	19,127	84	2,446	397,476
Shad, California.....	14,151	10,277	9,670	6,253	11,200	30,231	23,120	15,220	29,150	15,334	11,344	187,469	187,469
Sheepshead, California.....	304	1,019	95	32	300	490	82	697	185	195	195	195	4,209
Skate.....	26	122	233	193	39	46	16	16	675
Smelt.....	4,356	690	325	1,735	25	4,820	7,785	4,510	2,820	18,580	9,137	4,615	50,131
Sole, Pacific.....	7	7	7
Sole, miscellaneous.....	219	263	233	56	135	219	4,484	279	221	80	54	65	9,294
Swordfish.....	3,975	14,478	40,577	23,246	46,825	10,197	10,197	10,197	139,568

MARINE FISCH CATCHES

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TABLE 13
Monthly Landings and Shipments of Commercial Fish Into the Los Angeles Area During 1964

TABLE 13—Continued

Monthly Landings and Shipments of Commercial Fish Into the Los Angeles Area During 1964

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM—Continued													
California waters:—Continued													
Fish:—Continued													
Tuna, albacore.....	250	1,942,904	5,051,138	2,798,643	3,832,308	3,095,613	109,253	16,829,359
Tuna, bluefin.....	59,903	3,828,633	628,968	68,610	2,658	4,586,364
Tuna, skipjack.....	459	3	3,117
Whitefish, ocean.....	54	128	89	56	67	16	61	97	165	208	831	3	2
Yellowtail, California.....	12	132	11	10	152	107	2,500	1,041	142	19,672	30	392
Mollusks:													
Crab, rock.....	6,821	7,008	9,740	8,154	9,959	13,412	16,607	15,121	14,172	11,634	10,211	2,376	130,215
Lobster, spiny.....	24,187	17,988	4,118	57,063	36,544	23,599	163,799	33	3
Squid:													
Octopus.....	42,900	53,125	65,926	83,200	144,596	157,182	114,538	111,288	169,452	74,765	76,730	1,124,070
Squid.....	960,670	951,340	202,925	731,056	172,800	6,855	74,550	3,000	904,935	2,850,085	6,858,110
Total pounds.....	1,749,632	3,971,223	9,553,098	8,609,371	4,477,379	17,006,786	11,656,866	19,016,039	26,127,105	22,663,767	16,801,981	8,058,262	149,724,907
Waters south of State:													
Fish:													
Bonito, California.....	60	800	4,000	4	41,834	26,518	73,216	150
Bonito, Pacific.....	150	13,392
Cabilla, spotted.....	10,172	2,218	255	140	64	750	6,935	23,025	124,233
Hake, California.....	50,640	1,333	21,533	970	6,540	9,650	1,185	38	6,202	14,748	33,216
Lingcod, California.....	382	723	135	565	841	285	9,297	420	170	590
Mackerel, jack.....	10,000	10,000	1,661
Rockfish.....	186	8,487	1,815	385	6,040	3,170	655	985	276	21,999
Sea bass, giant.....	18,198	7,323	12,823	19,161	3,491	8,990	7,908	15,808	20,741	7,946	15,539	156,328
Sabalus, white.....	43,276	85,844	100,782	78,539	47,841	45,178	232	21,000	40,620	70,796	89,466	22,570	684,144
Smelt.....	6,101	6,513	3,100	655	629	2,185	2,108	300	1,513	652	2,447	5,803	32,009
Sheepshead, California.....	391	95	115	654	3,763	1,085	300	101
Tuna, albacore.....	7,125	345,961	2,294,414	556,001	150,478	4,569	420	3,359,968	5,832

TABLE 13

Monthly Landings and Shipments of Commercial Fish Into the Los Angeles Area During 1964

Tuna, bluefin.....	8,880													
Tuna, skipjack.....	6,493,530	2,916,832	5,652,353	3,106,828	48,719	187,309	3,825,528	4,204,407	5,116,383	2,034,511	430,533	29,810	15,886,080	
Tuna, yellowfin.....	8,612,801	7,874,716	10,570,806	18,054,155	4,842,694	18,030,447	4,851,577	4,851,577	4,963,490	2,106,023	4,974,348	2,941,846	5,291,003	32,206,418
Whitefish, ocean.....														
Miscellaneous.....	5,314	2,822	5,228	6,313	2,697	1,727	2,697	41	5,123,723	3,130,777	3,844,122	7,800,000	3,710,000	119,794,200
Total pounds.....	15,248,309	10,941,321	22,370,214	21,331,397	23,158,556	23,358,004	17,129,661	16,937,419	10,986,768	10,799,883	6,860,730	13,314,239	192,436,421	
SHIPMENTS:														
Fish:														
Halibut, California.....	—	—	—	528	—	—	275	—	—	—	—	—	903	
Halibut, California.....	600	—	—	410	—	—	1,241	—	889	—	—	—	3,120	
Sablefish.....	—	—	—	—	—	—	—	—	—	—	—	—	180,169	
Sealass, white.....	4,643	45,803	14,777	3,488	43,738	—	33,160	29,505	13,369	7,856	35,897	95,454	379,961	693,942
Sealass, white.....	75	—	—	—	—	—	630	83	—	—	—	—	127	
Shad.....	—	—	—	—	—	—	—	—	—	—	—	—	—	
Shark.....	43	—	—	50,000	—	—	21,105	—	—	—	—	—	71,105	
Shark.....	—	—	—	1,112	—	—	295	718	414	—	—	—	1,520	
Tuna, albacore.....	2,903,545	1,606,184	1,981,583	2,087,741	2,883,149	2,951,281	1,276,122	1,338,679	2,699,776	3,402,379	4,250,186	2,371,576	29,400,000	
Tuna, bigeye.....	51,920	—	—	—	—	—	—	34,455	24,221	—	—	—	10,161	120,757
Tuna, bluefin.....	—	—	—	—	—	—	—	—	—	—	—	—	—	
Tuna, skipjack.....	1,759,898	—	—	886,745	—	138,987	2,845,809	—	69,159	603,728	—	—	3,660,681	
Tuna, yellowfin.....	4,622,939	2,193,237	1,970,963	6,718,846	2,758,360	3,000,000	263,002	—	—	—	—	—	4,890,238	
Miscellaneous.....	—	36,750	—	—	—	33,850	4,686,466	3,573,072	5,840,072	3,857,020	1,055,957	482,023	44,660,000	
Total pounds.....	9,345,295	4,025,586	4,017,324	9,659,551	5,325,169	9,433,357	6,001,646	5,310,126	8,981,765	7,303,101	7,187,301	7,178,968	83,651,080	
Grand total.....	28,343,136	18,838,130	35,941,036	39,580,319	32,161,104	49,806,047	34,788,173	41,293,564	46,095,656	40,766,751	30,953,012	28,551,469	426,112,417	

* For origin of shipments refer to Table 6.

MARINE FISH CATCH FOR 1964

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TABLE 13—Cont'd.

TABLE 14
Monthly Landings and Shipments of Commercial Fish Into the San Diego Area During 1964

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
Commercial waters:													
Fish:													
Anchovy.....	686	1,120	1,589	2,207	1,711	635	886	639	-----	-----	-----	-----	3,305
Bass, California.....	137	141	231	237	121	2,552	2,931	8,828	26,135	18,583	28,460	14,945	5,373
Bonito, Pacific.....	14,596	11,013	423	13	10	86	586	121	436	384	130	415	132,564
Croaker, white.....	155	527	14	10	86	586	121	436	384	130	415	384	3,251
Dolphin, porpoise.....	-----	-----	-----	26	-----	-----	-----	-----	-----	-----	-----	-----	26
Hallibut.....	-----	-----	-----	-----	-----	-----	57	118	-----	-----	-----	-----	175
Halibut, California.....	9,837	20,110	13,055	8,997	6,910	15,744	15,615	14,866	8,216	5,682	4,904	19,316	142,952
Lingcod.....	-----	-----	-----	-----	-----	-----	98	121	121	12	55	11	176
Mackerel, bonito.....	252	92	-----	518	555	-----	432	315	330	205	253	114	2,793
Perch.....	-----	-----	-----	-----	-----	-----	-----	323	313	290	253	114	1,309
Pompano, Pacific.....	380	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	380
Rockfish.....	9,900	21,115	18,866	23,982	28,398	33,673	13,412	11,671	6,369	7,340	8,804	7,302	191,832
Sandlance.....	142	791	2,829	2,207	1,300	1,465	1,273	1,451	2,825	2,110	304	1,785	18,585
Sardine.....	-----	-----	-----	63,450	-----	100	18,000	22,650	56,250	26,570	9,200	196,220	-----
Sculpin.....	11,784	8,336	2,414	3,810	2,291	6,290	7,457	4,820	5,299	3,501	2,886	2,887	61,475
Seabass, giant.....	237	237	231	231	231	231	631	1,148	1,148	1,148	1,148	1,148	791
Seabass, white.....	2,317	612	4,420	1,632	3,118	2,837	2,524	28,642	3,125	1,829	884	230	52,190
Shark.....	8,595	5,027	4,237	10,819	18,314	13,605	13,027	11,746	7,565	8,127	7,732	8,463	111,258
Sole, California.....	2,947	1,984	256	197	154	758	754	754	294	36	1,129	455	174
Sole, petrale.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	984
Sole, miscellaneous.....	20	61	105	257	2,493	6,619	3,898	2,431	326	9	17	-----	16,306
Swordfish.....	-----	-----	-----	-----	-----	1,100	2,583	2,720	8,431	4,586	2,140	-----	21,565
Tuna, bluefin.....	-----	-----	-----	-----	-----	-----	184,717	1,177,440	1,009,699	1,566,699	62,699	189,433	4,791,495
Tuna, skipjack.....	-----	-----	-----	-----	-----	4,340	4,244	60,382	-----	-----	-----	-----	68,966
Tuna, yellowfin.....	-----	-----	-----	-----	-----	-----	-----	34	124	310	-----	767	84
Yellowtail, California.....	-----	-----	73	238	1,092	1,227	197	830	1,322	257	232	13	6,138
Miscellaneous.....	30	-----	-----	-----	-----	-----	285	47	-----	-----	-----	-----	362
Crustacean:													
Crab, rock.....	110	1,056	264	-----	-----	-----	-----	-----	-----	676	1,456	2,130	6,792
Lobster, spiny.....	21,229	17,299	4,341	-----	-----	-----	-----	-----	-----	68,943	42,801	24,472	179,055

TABLE 14
Monthly Landings and Shipments of Commercial Fish Into the San Diego Area During 1964

Mollusk:													
Abalone.....	15,526	16,206	33,692	32,553	30,340	40,051	21,402	17,461	8,626	16,764	7,878	240,499
Squid.....	3,911	3,011
Total pounds.....	97,097	90,781	74,100	88,995	165,509	118,762	303,211	1,330,203	1,225,255	1,782,318	757,180	278,801	6,281,382
Waters south of State:													
Fish:													
Barnacles, California.....	909	183	2,789	24	31	181	416	9,896
Bass, ocean.....	31	390	390	173	205	3,475	5,708	72
Croaker, white.....	72	11
Gaper.....	6,593	14,088	4,126	3,441	20	984	3,770	9,551	39,177
Hallibut.....	20
Halibut, California.....	2,780	95	745	287	5,524	5,078	48,904	38,423	8,009	23,876	9,298	7,762	150,821
Lingcod.....	49	62	480
Macrerek, Pacific.....	195	125	345	95
Pike.....	95	10
Rockfish.....	7,306	16,689	5,726	3,070	55	100	1,596	349	925	2,939	1,619	11,677	52,051
Sablefish.....	55	55
Sandab.....	49	40	480
Sea bass, giant.....	6,594	12,333	6,654	5,522	700	10,488	3,601	220	2,890	8,281	12,063	16,940
Sealass, white.....	7,147	8,682	46,513	26,111	4,352	340	5,041	1,175	18,069	22,115	15,735	156,120
Shark.....	589	1,122	2,605	225	1,195	1,187	892	49	55	242	8,161
Shark, California.....	286	1,093	330	600	100	140	162	3,250
Sole, miscellaneous.....	11	40	51
Tuna, albacore.....	1,020,187	3,438,090	668,279	177,723	10,510	5,314,791
Tuna, bluefin.....
Tuna, skipjack.....	738,725	782,067	1,602,883	758,530	1,788,549	682,631	443,202	740,696	1,273,822	2,611,561	409,898	934,313	12,661,577
Tuna, yellowfin.....	1,158,356	2,979,077	3,093,235	3,881,200	3,341,709	3,690,420	21,49,266	1,605,745	1,823,347	765,718	890,352	2,377,414	27,714,488
Whitefish, ocean.....	2,119	97	1248
Yellowtail, California.....	1,976	703	1,542	1,673	140	255	1,920	3,823	8,944	7,474	3,905	32,755
Miscellaneous.....	100	100
Total pounds.....	1,922,392	3,814,273	4,767,049	4,683,460	5,141,294	4,698,023	6,417,886	6,420,719	4,449,329	3,822,127	1,328,088	3,409,929	48,571,533
SHIPMENTS:													
Fish:													
Tuna, albacore.....	1,621,464	174,734	199,318	187,805
Tuna, skipjack.....	2,531	1,898,050
Tuna, yellowfin.....	201,439	99,187	300,626
Total pounds.....	203,973	99,187	1,621,464	262,539	199,318	2,386,481
Grand total.....	2,019,469	3,905,054	4,641,143	4,978,428	5,306,773	4,915,972	4,721,097	7,750,922	7,298,048	5,636,984	2,284,556	3,687,930	57,542,396

* For origin of shipments refer to Table 6.

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MARINE CATCH FOR 1964

TABLE 14—Cont'd.

TABLE 15
Value of Landings and Shipments of Commercial Fish Into California by Area, 1964

Species	Eureka	*San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
Fish:							
Anchovy.....	30,110	2,833,229	1,100	2,107,255	3,385	4,975,089	
-----	\$2,535	\$41,315	\$65	\$34,977	\$169	\$82,061	
Barracuda, California.....	-----	-----	58,970	258,899	16,272	334,140	
-----	-----	-----	\$8,914	\$4,142	\$2,505	\$5,061	
Blacksmith.....	-----	-----	-----	145,143	-----	145,143	
-----	-----	-----	-----	\$2,981	-----	\$2,981	
Bonito, Pacific.....	-----	1,265	11,956	2,460,776	138,272	2,612,269	
-----	-----	\$56	\$262	\$59,971	\$5,406	\$65,695	
Cabezon.....	4	1,913	3,248	116	-----	5,281	
-----	-----	\$70	\$193	\$11	-----	\$274	
Cabrilla, spotted.....	-----	-----	-----	13,592	-----	13,592	
-----	-----	-----	-----	\$2,190	-----	\$2,190	
Carp.....	194,527	-----	-----	-----	-----	194,527	
-----	\$11,466	-----	-----	-----	-----	\$11,466	
Croaker, white.....	23,177	87,525	891	723,678	3,323	838,584	
-----	\$1,093	\$35,380	\$25	\$31,460	\$309	\$39,175	
Flounder.....	91,512	25,776	68,113	26,585	-----	42,988	
-----	\$1,675	\$13,050	\$6,300	\$1,421	-----	\$25,367	
Flounder, arrowtooth.....	9,055	680	-----	-----	-----	9,735	
-----	\$391	\$28	-----	-----	-----	\$419	
Flyingfish.....	-----	-----	-----	85,910	-----	85,910	
-----	-----	-----	-----	\$10,814	-----	\$10,814	
Grouper.....	-----	-----	-----	124,233	39,797	164,030	
-----	-----	-----	-----	\$27,445	\$9,584	\$37,029	
Hake, Pacific.....	17,520	56,799	37,185	-----	25	111,529	
-----	\$295	\$924	\$586	-----	\$1	\$1,806	
Halfmoon.....	-----	-----	-----	9,848	195	10,043	
-----	-----	-----	-----	\$1,878	\$25	\$1,893	
Halibut, California.....	392	183,690	42,819	371,218	384,113	293,773	1,275,105
-----	\$98	\$43,473	\$10,359	\$81,855	\$90,569	\$62,428	\$285,782
Halibut, Pacific.....	3,040	-----	-----	-----	-----	3,040	
-----	\$917	-----	-----	-----	-----	\$917	
Hardhead.....	156,847	-----	-----	-----	-----	156,847	
-----	\$41,515	-----	-----	-----	-----	\$41,515	
Herring, Pacific.....	320	30,677	318,273	-----	-----	349,270	
-----	\$15	\$2,603	\$29,794	-----	-----	\$32,412	
Lingcod.....	457,732	273,648	57,107	46,419	1,184	267	836,377
-----	\$33,355	\$21,644	\$5,147	\$3,892	\$115	\$28	\$64,481
Mackerel, jack.....	860	1,697	2,584,160	12,178,795	74,927,399	-----	89,692,911
-----	\$25	\$75	\$66,116	\$238,922	\$1,810,131	-----	\$2,109,269
Mackerel, Pacific.....	-----	-----	2,558	848,380	25,973,110	3,433	26,827,391
-----	-----	-----	\$64	\$17,691	\$648,477	\$203	\$667,435
Opaleye.....	-----	-----	-----	2,001	-----	2,001	
Perch.....	44,572	17,574	16,836	27,970	24,475	1,688	133,115
-----	\$5,154	\$3,379	\$2,397	\$6,079	\$3,050	\$269	\$20,328
Pompano, Pacific.....	-----	-----	56,196	2,876	61,770	380	121,222
-----	-----	-----	\$19,007	\$628	\$13,505	\$95	\$33,235
Rockfish.....	1,885,160	1,750,317	2,174,861	1,584,298	479,393	243,883	8,117,912
-----	\$94,033	\$95,220	\$119,574	\$90,845	\$60,918	\$29,526	\$490,116
Sablefish.....	1,136,677	626,330	410,717	88,215	926	587	2,463,452
-----	\$109,190	\$31,866	\$17,902	\$3,513	\$95	\$47	\$162,703
Salmon.....	5,423,263	3,51,468	-----	172,121	41	-----	9,471,115
-----	\$2,660,674	\$2,046,658	\$215,118	\$89,894	\$23	-----	\$5,012,600
Sanddab.....	146,818	308,823	112,212	533	266	19,074	589,526
-----	\$11,849	\$20,244	\$6,949	\$32	\$57	\$1,905	\$44,126
Sardine.....	-----	31	414,556	839,865	11,686,711	196,220	13,137,483
-----	-----	\$7	\$20,847	\$24,615	\$431,583	\$23,007	\$500,149
Sculpin.....	-----	-----	-----	16,110	78,115	94,225	
-----	-----	-----	-----	\$5,401	\$21,213	\$26,614	
Sea bass, giant.....	-----	-----	984	145,363	76,368	222,715	
-----	-----	-----	\$129	\$23,399	\$12,378	\$35,906	
Seabass, white.....	-----	9,371	26,338	65,552	1,081,520	208,300	1,391,081
-----	-----	\$122	\$2,272	\$4,865	\$244,759	\$40,563	\$399,351
Shark.....	1,075	136,324	41,820	125,498	219,432	122,419	646,560
-----	\$71	\$7,100	\$1,472	\$1,101	\$28,118	\$12,966	\$86,588
Sheephead, California.....	-----	-----	1,009	5,110	11,815	17,934	
-----	-----	-----	\$67	\$378	\$967	\$1,412	
Skate.....	30,930	107,370	77,828	5,902	675	-----	222,705
-----	\$122	\$1,226	\$1,195	\$280	\$69	-----	\$2,892
Smelt.....	230,000	88,157	36,751	-----	59,131	-----	414,039
-----	\$12,641	\$10,951	\$2,278	-----	\$2,557	-----	\$28,427
Smelt, whitebait.....	180,362	10,853	-----	-----	-----	-----	191,215
-----	\$13,432	\$1,166	-----	-----	-----	-----	\$14,598

TABLE 15
Value of Landings and Shipments of Commercial Fish Into California by Area, 1964

TABLE 15—Continued
Value of Landings and Shipments of Commercial Fish Into California by Area, 1964

Species	Eureka	*San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS—Continued:							
Fish—Continued:							
Sole, Dover.....	6,252,243	2,737,004	67,116	208,875	----	----	9,265,238
Sole, English.....	1,780,430	1,989,680	389,787	427,948	7	----	\$591,490
Sole, petrale.....	1,080,687	948,109	200,837	457,053	----	884	2,697,670
Sole, rex.....	124,846	\$118,010	28,225	\$53,314	----	\$246	\$322,641
Sole, 642,716	459,783	183,252	124,896	----	----	----	1,410,647
Sole, sand.....	15,951	256,284	763	63,199	----	----	\$95,396
Sole, miscellaneous.....	\$174,745	\$29,565	\$98	\$7,348	----	----	336,197
Sole, \$16	\$135	\$1,502	\$160	\$241	\$4,063	\$6,417	-----
Swordfish.....	906	15,237	145,130	21,750	----	----	183,023
Tuna, albacore.....	4,750,418	1,336,798	2,272,440	3,891,832	20,89,227	10,689,688	42,651,011
Tuna, bluefin.....	\$653,095	\$184,280	\$312,733	\$538,029	\$3,287,448	\$1,030,918	\$6,171,113
Tuna, skipjack.....	1,186,971	104	----	20,472,444	2,698,814	20,171,258	-----
Tuna, yellowfin.....	\$127,101	\$8	----	\$2,490,314	\$336,279	\$2,826,593	-----
Turbot.....	1,511,669	232,088	----	52,209,535	12,662,344	66,058,954	-----
Turbot.....	5,959	57,958	1,080	28,270	3	----	93,280
Wahoo.....	\$339	\$3,054	\$21	\$1,473	----	4,248	4,248
Whitefish, ocean.....	----	----	----	45	872	854	1,771
Yellowtail, California.....	----	----	----	\$3	\$68	\$67	\$138
Miscellaneous.....	299	206	34	68	71,268	38,623	110,069
Miscellaneous.....	76	\$12	\$3	\$85	\$5,253	\$3,434	\$11,694
Miscellaneous (animal food).....	852,028	42,917	46,880	796,816	----	1,738,441	-----
Miscellaneous (animal food).....	\$17,040	\$858	\$937	\$15,945	----	-----	\$34,780
Crustacean:							
Crab, market.....	984,440	821,009	7,780	2,134	----	----	1,815,363
Crab, market.....	\$297,849	\$315,570	\$3,320	\$938	----	----	\$617,677
Crab, rock.....	9,250	98	643	116,887	130,215	6,792	283,885
Lobster, spiny.....	----	\$9	\$17	\$3,595	\$16,157	\$322	\$23,714
Prawn.....	----	----	----	103,771	163,799	179,085	446,655
Shrimp, ocean.....	1,065,165	34,982	4,050	----	----	----	5,775
Shrimp, ocean.....	\$106,516	\$3,701	----	----	----	1,100,147	\$4,050
Shrimp, ocean.....	----	----	----	----	----	----	\$110,217
Mollusk:							
Abalone.....	38,721	410	2,675,523	1,124,070	240,499	4,079,223	-----
Clam, Washington.....	4,133	7,238	\$89	\$405,518	\$137,297	\$22,669	\$572,811
Octopus.....	4,815	25,167	6,678	1,998	33	----	4,133
Octopus.....	\$635	\$1,181	\$664	\$115	\$7	----	\$635
Oyster, eastern.....	4,910	----	----	----	----	----	2,167
Oyster, giant Pacific.....	894,512	208,293	8,449	243,483	----	----	4,910
Oyster, giant Pacific.....	\$161,012	\$37,492	\$1,520	\$43,826	----	----	\$10,277
Squid.....	----	----	9,101,623	469,980	6,858,110	3,911	1,354,737
Miscellaneous mollusk.....	----	----	\$242,950	\$1,516	\$84,057	\$97	\$243,850
Miscellaneous mollusk.....	----	----	461	6	----	467	\$332,520
Miscellaneous mollusk.....	----	----	\$114	----	----	----	\$114
Total pounds.....	27,998,593	19,575,028	22,111,950	26,137,895	342,161,328	55,155,915	493,140,709
Total value.....	\$4,887,273	\$3,769,149	\$1,218,767	\$1,801,947	\$30,918,228	\$7,333,310	\$49,925,674

TABLE 15
Value of Landings and Shipments of Commercial Fish Into California by Area, 1964

TABLE 15—Continued
Value of Landings and Shipments of Commercial Fish Into California by Area, 1964

Species	Eureka	*San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
SHIPMENTS:†							
Fish:							
Barracuda, California	---	---	---	803	---	803	\$126
Halibut, California	---	---	---	3,120	---	3,120	\$754
Sablefish	---	---	---	180,169	---	180,169	\$40,169
Salmon	---	---	---	693,942	---	693,942	\$14,146
Seabass, white	---	---	---	361,748	---	361,748	\$361,748
Shad	3,365	1,953	---	797	797	797	\$248
Shark	4,105	492	---	71,105	71,105	74,470	\$6,032
Smelt	4,105	492	---	1,520	1,520	1,520	\$209
Sturgeon	---	---	---	35,809	35,809	35,809	\$17,743
Tuna, albacore	2,460,129	479,913	29,520,119	187,805	32,169,553	32,169,553	\$5,686,240
Tuna, bigeye	457,228	55,406	58,172,053	534,274	573,985	573,985	\$12,012
Tuna, bluefin	---	---	44,929,004	300,626	53,836,616	53,836,616	\$3,660,881
Tuna, skipjack	8,040	824	415,639	1,898,050	6,495,326	6,495,326	\$186,542
Tuna, yellowfin	8,605,986	1,697,230	7,087,410	44,265	8,828,905	8,828,905	\$1,627,118
Miscellaneous	92,000	9,199	142,127	72,396	234,127	234,127	\$1,595
Crustacean:							
Crab, king	21,492	4,105	4,105	83,951,089	2,386,481	57,542,396	591,130,624
Total pounds	11,648,240	2,244,525	11,648,240	\$13,745,391	2,386,481	57,542,396	\$7,989,915
Total value	11,648,240	2,244,525	11,648,240	\$13,745,391	2,386,481	57,542,396	\$16,255,480
GRAND TOTAL POUNDS	27,998,593	31,223,268	22,116,055	26,137,895	426,112,417	57,542,396	591,130,624
GRAND TOTAL VALUE	\$4,887,273	\$6,013,674	\$1,219,259	\$1,801,947	\$44,660,619	\$7,598,391	\$66,181,163

* Includes Sacramento area landings.

† For origin of shipments refer to Table 6.

TABLE 15
Value of Landings and Shipments of Commercial Fish Into California by Area, 1964

TABLE 16
Value of Landings by Port, Eureka Area, 1964

	Value	Pounds
EUREKA AREA TOTALS.....	\$4,887,273	27,998,593
Eureka		
Salmon.....	\$1,013,872	2,086,528
Albacore.....	372,662	2,710,631
Giant Pacific oyster.....	161,012	894,512
Dover sole.....	158,237	2,532,157
Market crab.....	117,761	389,221
Ocean shrimp.....	73,266	732,660
Petrale sole.....	45,547	397,911
English sole.....	41,067	521,987
Sablefish.....	35,563	370,211
Rockfish.....	25,877	527,929
Rex sole.....	19,690	272,763
Lingcod.....	9,195	126,184
Sanddab.....	5,937	74,464
All other species.....	11,348	204,403
Totals.....	\$2,091,034	11,841,561
Fort Bragg		
Salmon.....	\$1,185,121	2,311,101
Albacore.....	265,742	1,932,928
Market crab.....	82,662	273,212
Dover sole.....	64,450	1,031,358
Petrale sole.....	40,054	349,919
English sole.....	31,485	400,190
Rockfish.....	22,822	456,413
Sablefish.....	20,105	209,295
Rex sole.....	9,390	130,076
Lingcod.....	9,216	126,474
All other species.....	14,876	394,824
Totals.....	\$1,745,923	7,615,790
Crescent City		
Salmon.....	\$236,347	568,697
Market crab.....	68,188	225,372
Ocean shrimp.....	32,202	332,025
English sole.....	19,480	247,605
Albacore.....	11,580	106,051
Dover sole.....	13,161	210,603
Petrale sole.....	12,188	106,479
Rockfish.....	10,569	202,595
Lingcod.....	6,215	85,291
All other species.....	11,319	142,735
Totals.....	\$425,249	2,227,453
Fields Landing		
Dover sole.....	\$154,860	2,478,125
Sablefish.....	51,886	540,138
English sole.....	48,200	612,648
Rockfish.....	34,765	698,223
Petrale sole.....	27,057	236,378
Salmon.....	20,411	45,437
Rex sole.....	15,463	214,207
Miscellaneous (animal food).....	12,251	612,593
Market crab.....	8,901	29,419
Lingcod.....	8,729	111,783
Smelt.....	5,328	94,643
All other species.....	11,238	143,781
Totals.....	\$399,089	5,825,375

TABLE 16
Value of Landings by Port, Eureka Area, 1964

TABLE 16—Continued
Value of Landings by Port, Eureka Area, 1964

	Value	Pounds
Albion		
Salmon.....	\$106,343	206,469
Totals.....	\$106,343	206,469
Point Arena		
Salmon.....	\$76,631	148,777
All other species.....	14	282
Totals.....	\$76,645	149,059
Trinidad		
Salmon.....	\$21,852	56,062
Market crab.....	20,337	67,216
All other species.....	8	108
Totals.....	\$42,197	123,386
All other ports		
All species.....	\$793	9,500
Totals.....	\$793	9,500

TABLE 16
Value of Landings by Port, Eureka Area, 1964

TABLE 17
Value of Landings and Shipments by Port, San Francisco Area, 1964 *

	Value	Pounds
SAN FRANCISCO AREA TOTALS.....	\$6,013,674	31,223,268
San Francisco		
Yellowfin tuna.....	\$1,929,318	10,117,655
Albacore.....	484,219	2,491,364
Salmon.....	370,888	633,132
Market crab.....	142,410	370,505
Dover sole.....	128,214	2,277,585
Skipjack.....	127,025	1,195,011
English sole.....	102,746	1,325,525
Petrale sole.....	93,243	749,124
Rockfish.....	81,640	1,498,619
Bigeye tuna.....	55,406	457,228
California halibut.....	35,768	151,135
Sablefish.....	27,935	724,401
Sand sole.....	27,048	234,464
Rex sole.....	22,446	330,644
Sanddab.....	18,354	279,993
Lingcod.....	13,178	166,005
Flounder.....	8,980	160,761
Smelt.....	5,300	52,790
All other species.....	18,263	334,281
Totals.....	\$3,693,281	23,550,822
Bodega Bay		
Salmon.....	\$531,319	900,742
Market crab.....	98,905	257,318
English sole.....	46,863	604,580
Petrale sole.....	21,148	169,910
Dover sole.....	16,050	285,110
Rex sole.....	7,365	108,404
Rockfish.....	7,231	127,547
Albacore.....	6,470	46,934
All other species.....	21,437	333,455
Totals.....	\$756,788	2,843,000
Sausalito		
Salmon.....	\$515,683	890,937
Albacore.....	77,345	561,074
All other species.....	8,637	67,431
Totals.....	\$601,665	1,519,442
Point Reyes		
Salmon.....	\$295,177	503,883
Giant Pacific oyster.....	31,020	172,338
Market crab.....	26,809	69,747
Rockfish.....	5,184	98,447
All other species.....	22,529	256,172
Totals.....	\$380,719	1,100,587
Princeton		
Salmon.....	\$234,518	400,336
Market crab.....	34,533	89,844
Abalone.....	7,238	38,721
All other species.....	1,757	20,789
Totals.....	\$278,046	549,690

TABLE 17
Value of Landing and Shipments by Port, San Francisco Area, 1964

TABLE 17—Continued
Value of Landings and Shipments by Port, San Francisco Area, 1964 *

	Value	Pounds
Oakland		
Albacore.....	\$96,159	607,555
Salmon.....	91,003	155,348
Dover sole.....	8,730	155,070
Market crab.....	7,838	20,391
All other species.....	1,856	44,707
Totals.....	\$205,586	1,073,071
Clear Lake		
Hardhead.....	\$40,517	153,078
Carp.....	9,083	154,100
Totals.....	\$49,600	307,178
Tomales Bay		
Eastern oyster.....	\$10,277	4,910
Giant Pacific oyster.....	5,508	30,602
All other species.....	9,754	84,473
Totals.....	\$25,539	119,985
Richmond		
All species.....	\$9,953	94,165
Totals.....	\$9,953	94,165
Berkeley		
Salmon.....	\$7,614	13,302
All other species.....	472	2,251
Totals.....	\$8,086	15,553
All other ports		
All species.....	\$4,411	49,685
Totals.....	\$4,411	49,685

* Includes Sacramento area landings.

TABLE 17
Value of Landing and Shipments by Port, San Francisco Area, 1964

TABLE 18
Value of Landings and Shipments by Port, Monterey Area, 1964

	Value	Pounds
MONTEREY AREA TOTALS.....	\$1,219,259	22,116,055
Moss Landing		
Albacore.....	\$275,814	2,004,169
Salmon.....	140,617	247,014
Jack mackerel.....	49,659	1,940,974
Anchovy.....	41,449	2,649,980
Squid.....	35,461	1,324,900
Pacific herring.....	19,074	203,753
Sardine.....	12,556	249,680
Pacific pompano.....	11,982	35,427
All other species.....	29,212	335,645
Totals.....	\$615,824	8,691,542
Monterey		
Squid.....	\$205,621	7,706,949
Rockfish.....	118,530	2,163,884
Albacore.....	30,167	262,804
Salmon.....	35,288	62,228
English sole.....	26,188	332,149
Petrale sole.....	21,558	165,099
Jack mackerel.....	16,364	639,533
Sablefish.....	14,867	339,382
Rex sole.....	8,968	179,185
Sardine.....	8,261	164,276
Sanddab.....	5,882	94,995
All other species.....	29,809	506,730
Totals.....	\$527,503	12,617,224
Santa Cruz		
Salmon.....	\$39,513	69,179
Pacific herring.....	9,260	98,920
California halibut.....	6,883	28,517
All other species.....	20,276	310,673
Totals.....	\$75,932	507,289

TABLE 18
Value of Landings and Shipments by Port, Monterey Area, 1964

TABLE 19
Value of Landings by Port, Santa Barbara Area, 1964

	Value	Pounds
SANTA BARBARA AREA TOTALS.....	\$1,801,947	26,137,895
Morro Bay		
Albacore.....	\$525,361	3,800,201
Abalone.....	169,066	1,102,677
Jack mackerel.....	67,804	3,456,235
Rockfish.....	60,978	1,031,772
Giant Pacific oyster.....	43,826	243,483
Salmon.....	21,145	39,693
Petrile sole.....	17,054	146,203
Sardine.....	16,571	565,465
Dover sole.....	8,896	150,455
Miscellaneous (animal food).....	7,288	364,113
Perch.....	5,576	25,743
All other species.....	25,514	314,296
Totals.....	\$969,079	11,240,336
Santa Barbara		
Abalone.....	\$223,359	1,484,959
Spiny lobster.....	54,529	83,319
California halibut.....	51,886	235,305
Rockfish.....	15,933	289,433
English sole.....	14,411	215,422
Shark.....	10,140	100,612
California barracuda.....	8,876	58,718
Rock crab.....	6,944	111,805
Petrile sole.....	6,197	53,127
Swordfish.....	6,083	12,130
White seabass.....	5,517	21,409
Miscellaneous (animal food).....	5,198	259,694
All other species.....	3,103	77,272
Totals.....	\$412,206	3,005,225
Port Hueneme		
Jack mackerel.....	\$165,656	8,444,160
Pacific mackerel.....	17,478	838,180
Albacore.....	12,298	88,960
California halibut.....	12,084	54,803
Abalone.....	10,779	72,792
Spiny lobster.....	8,373	13,101
Sardine.....	7,792	265,900
All other species.....	7,341	498,380
Totals.....	\$241,801	10,276,276
Avila		
Salmon.....	\$68,402	131,812
Petrile sole.....	30,006	257,238
Rockfish.....	13,126	251,676
English sole.....	10,374	154,751
California halibut.....	8,480	38,498
White seabass.....	7,840	30,424
Sand sole.....	5,099	43,854
All other species.....	16,503	354,164
Totals.....	\$159,839	1,262,417
Ventura		
California halibut.....	\$5,978	27,110
All other species.....	4,295	25,119
Totals.....	\$10,273	52,229
Oxnard		
Jack mackerel.....	\$5,462	278,400
All other species.....	1,408	12,110
Totals.....	\$6,870	290,510
All other ports		
All species.....	\$1,879	10,902
Totals.....	\$1,879	10,902

TABLE 19
Value of Landings by Port, Santa Barbara Area, 1964

TABLE 20
Value of Landings and Shipments by Port, Los Angeles Area, 1964

	Value	Pounds
LOS ANGELES AREA TOTALS.....	\$44,660,619	426,112,417
Terminal Island		
Yellowfin tuna.....	\$22,080,448	164,313,203
Albacore.....	8,378,861	49,373,713
Skipjack.....	5,603,327	56,797,811
Bluefin tuna.....	2,082,517	23,587,494
Jack mackerel.....	1,483,776	61,622,726
Pacific mackerel.....	526,810	21,100,386
Sardine.....	349,369	9,460,475
Squid.....	58,300	4,706,215
Pacific bonito.....	25,424	1,043,223
Bigeye tuna.....	12,012	120,757
All other species.....	930	10,826
Totals.....	\$42,410,774	392,136,019
San Pedro		
White seabass.....	\$221,224	97,528
Jack mackerel.....	83,102	3,451,323
Sardine.....	82,043	2,221,616
Abalone.....	72,456	589,831
California halibut.....	67,123	284,673
Bluefin tuna.....	66,326	545,256
Spiny lobster.....	55,668	82,665
Rockfish.....	57,375	451,328
Yellowfin tuna.....	54,606	409,050
Swordfish.....	53,128	93,159
Pacific mackerel.....	45,862	1,836,912
Albacore.....	43,116	266,896
California barracuda.....	41,517	246,855
Pacific bonito.....	28,422	1,166,235
White croaker.....	27,591	643,726
Grouper.....	27,445	124,233
Squid.....	26,197	2,114,742
Anchovy.....	23,544	1,418,469
Giant sea bass.....	22,944	142,538
Pacific pompano.....	13,149	60,136
Shark.....	11,760	92,236
Flyingfish.....	9,834	78,124
California yellowtail.....	7,718	67,090
Rock crab.....	6,811	54,891
All other species.....	12,090	146,232
Totals.....	\$1,164,051	17,566,644
Los Angeles		
Salmon.....	\$361,748	603,912
Sablefish.....	40,446	180,169
Sturgeon.....	17,743	35,999
Shad.....	6,032	71,105
All other species.....	74,126	151,975
Totals.....	\$500,095	1,133,000
Wilmington		
Jack mackerel.....	\$188,290	7,819,856
Pacific mackerel.....	47,251	1,892,559
Anchovy.....	7,803	470,089
Pacific bonito.....	5,648	231,757
All other species.....	5,426	171,188
Totals.....	\$254,418	10,585,449

TABLE 20
Value of Landings and Shipments by Port, Los Angeles Area, 1964

TABLE 20—Continued
Value of Landings and Shipments by Port, Los Angeles Area, 1964

	Value	Pounds
Newport Beach		
Abalone.....	\$64,314	529,734
Jack mackerel.....	48,951	2,033,000
Pacific mackerel.....	28,512	1,142,000
Swordfish.....	26,472	46,419
Shark.....	14,627	113,323
California halibut.....	13,633	57,820
Albacore.....	8,935	55,308
White seabass.....	8,920	39,417
Spiny lobster.....	8,915	12,561
All other species.....	4,600	177,915
Totals.....	\$227,879	4,207,497
Santa Monica		
Spiny lobster.....	\$15,005	21,142
White seabass.....	11,549	51,033
California halibut.....	8,928	37,866
All other species.....	7,361	79,078
Totals.....	\$42,843	189,119
Long Beach		
Spiny lobster.....	\$16,878	23,782
All other species.....	10,135	124,195
Totals.....	\$27,013	147,977
San Clemente		
Spiny lobster.....	\$13,100	18,458
All other species.....	71	567
Totals.....	\$13,171	19,025
Redondo Beach		
Rock crab.....	\$7,684	61,927
All other species.....	4,815	36,693
Totals.....	\$12,499	98,620
All other ports		
All species.....	\$7,876	28,167
Totals.....	\$7,876	28,167

TABLE 20
Value of Landings and Shipments by Port, Los Angeles Area, 1964

TABLE 21
Value of Landings and Shipments by Port, San Diego Area, 1964

	Value	Pounds
SAN DIEGO AREA TOTALS.....	\$7,598,391	57,542,316
San Diego		
Yellowfin tuna.....	\$3,705,069	28,014,831
Albacore.....	1,664,260	10,297,365
Skipjack.....	1,496,004	14,569,394
Bluefin tuna.....	336,279	2,098,814
Spiny lobster.....	109,778	155,649
California halibut.....	61,378	288,833
White seabass.....	39,895	204,868
Rockfish.....	28,605	236,396
Ahalone.....	22,669	240,499
Sardine.....	23,097	196,220
Sculpin.....	21,196	78,053
Shark.....	12,743	120,391
Giant sea bass.....	12,354	76,218
Swordfish.....	11,892	21,750
Grouper.....	9,584	39,747
Pacific bonito.....	5,245	134,138
All other species.....	18,453	128,973
Totals.....	\$7,578,461	57,493,189
Oceanside		
Spiny lobster.....	\$6,156	8,729
All other species.....	3,150	20,761
Totals.....	\$9,306	29,490
All other ports		
Spiny lobster.....	\$10,372	14,707
All other species.....	252	5,010
Totals.....	\$10,624	19,717

TABLE 21
Value of Landings and Shipments by Port, San Diego Area, 1964

TABLE 22
Statewide Commercial Partyboat Catch by Species
(Not including anchored barges)
1955-1964 *

Species	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
Barracuda, California	154,982	87,603	577,184	782,723	1,105,585	755,408	391,884	335,567	483,699	303,070
Bas, kelp and sand	497,343	170,362	609,771	655,671	425,420	478,656	613,604	789,149	1,219,344	1,103,394
Bottlenose dolphin	22,349	0,141	2,553	4,026	2,700	1,870	1,947	799	1,204	1,004,804
Cabazon	12,396	18,195	14,479	9,909	5,329	2,816	2,639	1,588	9,726	6,491
Habitat, California	35,802	21,661	10,739	16,192	25,965	48,310	108,011	118,968	129,699	141,465
Lingcod	29,113	37,461	38,012	39,801	31,206	28,232	23,469	23,399	27,513	25,263
Mackerel, jack	59,278	25,493	6,778	27,797	11,253	12,257	12,257	10,097	13,177	13,177
Mackerel, Pacific	151,018	121,136	151,990	138,607	88,582	79,370	113,988	116,758	146,550	101,219
Rockfish	1,731,272	2,049,126	1,801,181	1,801,182	1,118,979	1,018,572	808,572	985,788	962,772	965,021
Salmofish	1,731,272	2,049,126	1,801,181	1,801,182	1,118,979	1,018,572	808,572	985,788	962,772	965,021
Solefish	114,265	44,701	52,479	55,945	37,941	42,965	37,612	37,612	72,157	72,157
Squid	28,613	36,558	13,473	13,743	11,477	15,111	26,672	33,311	53,836	72,811
Sealabs white	30,103	19,755	19,030	34,039	10,263	15,697	14,049	14,564	19,890	14,901
Sheephead, California	14,102	14,789	15,105	18,120	17,146	11,541	15,210	13,488	18,143	26,821
Tuna, albacore	75,558	65,214	41,540	6,392	76,073	18,723	18,723	22,017	18,043	112,288
Tuna, bluefin	8,179	34,187	6,428	884	1,330	97	2,368	2,453	737	698
Whitefish, ocean	9,508	7,951	4,389	6,143	5,608	5,850	6,647	6,157	6,231	6,949
Yellowtail, California	36,468	29,198	24,098	123,384	457,550	254,969	42,367	21,826	45,705	39,104
All others	99,051	62,027	56,148	44,839	25,039	36,152	47,391	92,776	142,530	114,400
Total number of fish	3,113,883	3,262,995	3,499,585	3,950,889	4,326,575	4,093,034	3,453,833	3,653,993	4,276,502	4,434,176
Number of angler days*	496,286	523,063	536,175	515,152	557,154	516,255	495,805	563,916	595,866	613,155
Number of anglers	—	—	—	—	—	—	—	—	—	990,445

* See Fish Bulletin No. 121 for historical records 1939-1961.

† Not available after 1961.

TABLE 22
Statewide Commercial Partyboat Catch by Species (Not including anchored barges) 1955-1964

TABLE 23
Recorded Catch of Live Bait for Saltwater Sportfishing, 1964

Species	Thousands of pounds*
Anchovy-----	10,382
Herring, Pacific-----	18
Sardine, adult-----	283
Sardine, juvenile-----	1
Miscellaneous†-----	26
Total pounds-----	10,710

* Weights are estimated from voluntary records submitted by 20 boats. A conversion factor of 12.5 pounds per live bait scoop is used. The weights of a scoop of live bait varies between 10 and 15 pounds. The records represent almost all of the live bait landings, however, they should be regarded as minimal.

† Consists primarily of queenfish and white croaker.

TABLE 23
Recorded Catch of Live Bait for Saltwater Sportfishing, 1964

TABLE 24

**Inshore Bait Landings
Pounds and Value
1964**

Species	Statewide*	Sacramento	San Francisco	Los Angeles	San Diego
Clam					
Freshwater-----	214,363	33,694	180,669	--	--
\$22,500	\$3,369	\$19,131			
Jackknife-----	72,500	--	--	30,917	41,583
\$36,702	\$1,920			\$16,282	\$20,420
Purple-----	4,386	--	--	2,115	2,271
\$1,920				\$1,050	\$870
Crab, sand-----	5,130	--	229	4,896	5
\$9,660			\$101	\$9,539	\$20
Mudsucker, longjaw-----	7,306	--	--	--	--
\$7,346					
Mussel (bay and rock)-----	67,827	--	75	54,380	13,372
\$6,264			\$7	\$4,974	\$1,283
Sculpin, staghorn-----	681	46	635	--	--
\$1,167	\$91		\$1,076		
Shrimp					
Ghost-----	4,699	--	--	3,526	1,173
\$22,423				\$16,081	\$6,342
Red-----	2,446	--	--	--	--
\$3,913					
Miscellaneous-----	645	--	222	15	408
\$1,807			\$1,184	\$11	\$612
Total-----	379,983				
		\$113,702			

* Some figures are reported only statewide to avoid revealing the business of an individual in an area.

TABLE 24
Inshore Bait Landings Pounds and Value 1964