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**THE RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF FISH AND GAME
FISH BULLETIN No. 117**

The Marine Fish Catch of California For the Year 1960



BY
THE BIOSTATISTICAL SECTION
1961



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 party boat anglers' sport catch.

This report for 1960 is the 20th in the series. Prior records have been published regularly beginning with those for 1926 and 1927. In recent years, a need for faster publication of catch statistics has made it desirable to publish annually instead of biennially.

Bulletin titles have varied slightly through the years. The first 15, for the years 1926 through 1952, were entitled "The commercial fish catch of California" but since 1953 bulletins have been entitled "The marine fish catch of California". Addition of marine sport catch information to bulletins influenced this title change to more accurately describe the bulletins' scope.

Each commercial fish dealer makes a quadruplicate record of every catch he receives from fishermen, and one copy is promptly sent to the Department of Fish and Game. Each party-boat operator records each trip's catch and these records are also sent to the Department. This complete enumeration of the catch insures greater accuracy than any known sampling plan. After several intermediate steps, basic data are summarized with the Department's I.B.M. punch card facilities into essentially the same form as the tables published in this bulletin.

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

1. EXPLANATION OF TABLES

In California, almost all fish and shellfish are landed whole or "in the round". An exception is salmon which is cleaned by removing entrails and gills at sea to insure that this very valuable fish is of the highest quality when marketed. Condition of other fish landed cannot always be determined. All poundages of fin fish, including salmon, listed in this bulletin are as reported, irrespective of condition. Some varieties of shellfish are reported to the Department by counts, cleaned weight, or units of measurement other than pounds. All such figures are converted to round weights using appropriate conversions. The conversion factors are determined by sampling at delivery points. Factors are changed when regulations, biological, or economic conditions alter the size of the individual species landed. In 1960, factors for the eight most important shellfish were:

Abalone, red	50 lbs. per doz.
Abalone, pink	25 lbs. per doz.
Abalone, green	35 lbs. per doz.
Clams, Mexican Pismo	8 lbs. round wt. per 1 lb. cleaned wt.
Clams, Washington	7 lbs. per doz.
Crab, market	2 lbs. each
Oyster, eastern	30 lbs. per 100 oysters
Oyster, giant Pacific	50 lbs. per 100 oysters

The value of each variety of fish and shellfish has been computed from prices paid to the fishermen. This operation is performed by an I.B.M. Model 650 computer. Values do not reflect the cost of trucking, unloading, ice or other items which may be deducted from the basic prices. When an amount is unspecified, the average price for that variety in its statistical area is used (Figure 1).

Some varieties are reported collectively when, for economic or other reasons, dealers are unable to provide a specific separation (Table 1). For example silver salmon and king salmon are combined because the price is based on size and the dealers do not distinguish species.

Landings from the Sacramento area, chiefly carp and hardhead, have been combined with those in the San Francisco area, a practice that will be continued as long as the Sacramento area totals remain at their present low magnitude.

There are 23 tables in this bulletin. Eighteen summarize the final 1960 records of fish, mollusks, and crustaceans landed in California by the commercial fleet, and similar items imported for processing. Stringent laws require records of all fish destined for processing be reported to the Department, but the laws do not include imported fish for freshsale. This latter record is therefore incomplete. Processing refers to canning, smoking, pickling, drying, and reduction into meal and oil.

One table shows the common and scientific names of the fish and shellfish included in this report (Table 1). Overall trends in the commercial catch from 1916 through 1960 are shown two ways (Table 2)

and Figure 2). Ranked pounds and values for 1960 along with reprinted 1959 figures for comparison comprise (Table 3. Similar comparisons of fishermen's areas of residence (Table 4) and for lengths of fishing boats (Table 5) are made.

Poundages for 1960 are recorded by species and statistical area (Tables 6 7 8 9 10 11 12 13 14). Values appear in Tables 15 16 17 18 19 20 21.

Catches of the most important species made by marine party-boat sportfishermen and the number of anglers each year in the 10-year period through 1960 are shown in Table 22. Table 22 has been revised this year to show number of anglers instead of angler days formerly recorded. Number of anglers was considered to be more meaningful, so angler days will no longer be computed. For previous years (1951–1959) angler days were converted to anglers by multiplying with a factor of 1.2348. The amount of live bait used by marine sportsmen is shown in Table 23, the final one.

TABLE 1
Common and Scientific Names of Fishes, Crustaceans, and Mollusks in the 1960 Catch

Common name	Scientific name	Common name	Scientific name
FISHES			
Anchovy	<i>Engraulis mordax</i>	Shark	<i>Celorhinus maximus</i>
Barracuda, California	<i>Sphyraena argentea</i>	Basking	<i>Iurus glaucus</i>
Bonito	<i>Sarda chilensis</i>	Bonito	<i>Squalus acanthias</i>
Cabezon	<i>Scorpaenichthys marmoratus</i>	Dogfish	<i>Triakis semifasciata</i>
Cabrilla	<i>Epinephelus analogus</i>	Leopard	<i>Galeorhinus zyopterus</i>
Carp	<i>Cyprinus carpio</i>	Soupmn	<i>Alopias vulpinus</i>
Croaker, white	<i>Genyonemus lineatus</i>	Thresher	Varying amounts of others
Small amounts of queenfish	<i>Seriphus politus</i>	Shovelnose	<i>Pimelometopon pulchrum</i>
Flounder	<i>Platichthys stellatus</i>	Skate	<i>Raja binoculata</i>
Star flounder	Small amounts of other flatfishes	Big	<i>Raja inornata</i>
Flyingfish	<i>Cypselurus californicus</i>	California	<i>Raja rhina</i>
Grouper	<i>Myxopercaria species</i>	Smelt	<i>Leuresthes tenuis</i>
Hake	<i>Merluccius productus</i>	Jacks	<i>Atherinopsis californiensis</i>
Halfmoon	<i>Medialuna californiensis</i>	Surf	<i>Hypomesus pretiosus</i>
Halibut, arrowtooth	<i>Atheresthes stomaia</i>	Topsmelt	<i>Atherinops affinis</i>
Halibut, California	<i>Paralichthys californicus</i>	Dover	<i>Microstomus pacificus</i>
Halibut, Pacific	<i>Hippoglossus stenolepis</i>	English	<i>Parophrys vetulus</i>
Hardhead	Sacramento black-fish	Petrale	<i>Eopsetta jordani</i>
Hardhead	<i>Orthodon microlepidotus</i>	Rock	<i>Glyptocephalus zachirus</i>
Herring, Pacific	<i>Mylopharodon conocephalus</i>	Sand	Varying amounts of others
Lingcod	<i>Clipsa pallasi</i>	Splittail	<i>Pogonichthys macrolepidotus</i>
Mackerel, jack	<i>Ophichthus elongatus</i>	Sturgeon	<i>Acipenser species</i>
Mackerel, Pacific	<i>Trachurus symmetricus</i>	Swordfish	<i>Xiphias gladius</i>
Opahye	<i>Pneumatophorus diego</i>	Tuna	
Perch	<i>Girella nigricans</i>	Albacore	<i>Thunnus germo</i>
Pompano, California	Members of family Embiotocidae	Bigeye	<i>Thunnus obesus</i>
Ratfish	<i>Palometa similima</i>	Bluenose	<i>Thunnus atlanticus</i>
Rockbass	<i>Hydrologus collicei</i>	Orient	<i>Thunnus orientalis</i>
Kelp bass	<i>Paralabrax clathratus</i>	Skipjack	<i>Katsuwonus pelamis</i>
Sand bass	<i>Paralabrax nebulosus</i>	Yellowfin	<i>Neothunnus macropterus</i>
Rockfish	All species of <i>Sebastodes</i> and <i>Sebastodes</i>	Turbot	
Sablefish	<i>Anoplopoma fimbria</i>	Curlfin	<i>Pleuronichthys decurrens</i>
Salmon		Diamond	<i>Hypsopsetta guttulata</i>
King	<i>Oncorhynchus tshawytscha</i>	Hornyhead	<i>Pleuronichthys verticalis</i>
Silver	<i>Oncorhynchus kisutch</i>	Small amounts of others	
Sanddab	<i>Citharichthys sordidus</i>	Wahoo	<i>Acanthocybium solandri</i>
Sardine	<i>Sardinops carerulea</i>	Whitebait	<i>Allosmerus elongatus</i>
Sargo, California	<i>Anisotremus davidi</i>		<i>Sprinicus starksii</i>
Sculpin	<i>Scorpaena guttata</i>		Young of several others
Sculpin, staghorn	<i>Lepocottus armatus</i>	Whitefish, ocean	<i>Caenolatitus princeps</i>
Sea bass, black	<i>Stereolepis gigas</i>	Yellowtail	<i>Seriola dorsalis</i>
Seabass, white	<i>Cynoscion nobilis</i>		
Shad	<i>Alosa sapidissima</i>		
CRUSTACEANS			
Crab	<i>Cancer magister</i>	Prawn	<i>Pandalus platyceros</i>
Crab, rock	<i>Cancer productus</i>	Shrimp, bay	<i>Crago franciscorum</i>
	<i>Cancer antennarius</i>		<i>Crago nigricauda</i>
	<i>Cancer anthonyi</i>	Shrimp, ocean	<i>Pandalus jordani</i>
Lobster, spiny	<i>Panulirus interruptus</i>	Small amounts of others	
MOLLUSKS			
Abalone		Clam—Continued	
Pink	<i>Halichoeres corrugata</i>	Pismo	<i>Tivela stultorum</i>
Red	<i>Halichoeres rufescens</i>	Washington	<i>Saxidomus nutalli</i>
Green	<i>Halichoeres fulgens</i>	Octopus	<i>Paroctopus appollon</i>
White	<i>Halichoeres sorenseni</i>	Oyster	
Clam		Eastern	<i>Crassostrea virginica</i>
Gaper	<i>Schizothearus nuttalli</i>	Giant Pacific	<i>Crassostrea gigas</i>
Jackknife	<i>Tegillarca californianus</i>	Squid	<i>Loligo opalescens</i>

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TABLE 1
Common and Scientific Names of Fishes, Crustaceans, and Mollusks in the 1960 Catch

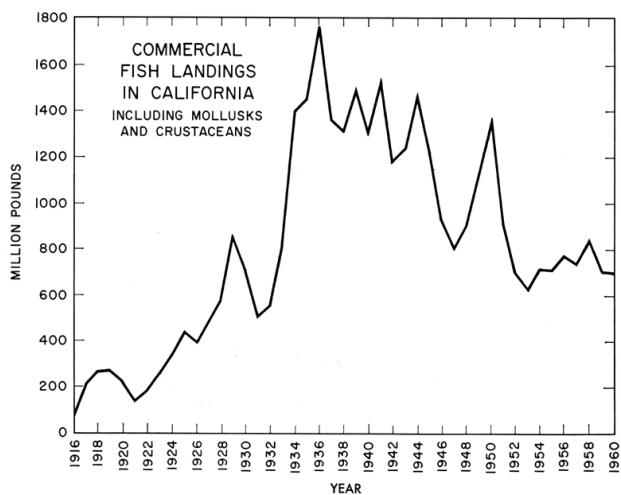


FIGURE 2. Total annual landings and shipments into California. Includes sardine deliveries to reduction ships 1930-38. See Table 2.

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	1,366,506
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	722,549
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		
1937	1,362,984		
1938	1,310,596		
1939	1,486,535		
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 and Value

Species	1959		1960		Species	1960		Species	1960	
	Thousands of pounds	Rank	Thousands of dollars	Rank		Thousands of pounds	Rank		Thousands of dollars	Rank
Yellowfin tuna.....	210,992	1	\$27,662	1	Yellowfin tuna.....	272,648	1	\$35,143	1	
Striped bass.....	141,300	2	15,340	2	Skipjack mackerel.....	12,242	2	1,242	2	
Sardine.....	71,307	3	1,475	3	Skipjack.....	7,799	3	1,896	3	
Albacore.....	62,482	4	11,382	3	Albacore.....	71,452	4	11,355	2	
Pacific mackerel.....	37,600	5	4,938	5	Skipjack.....	57,803	5	1,186	8	
Jack mackerel.....	37,507	6	807	9	Pacific mackerel.....	36,800	6	757	9	
Squid.....	19,653	7	342	14	Market crab.....	3,878	7	2,213	5	
Market crab.....	17,262	8	2,576	5	Rockfish.....	13,714	8	672	10	
Blenny.....	15,811	9	1,921	6	Rockfish.....	10,639	9	1,921	6	
Rockfish.....	15,281	10	710	10	Giant Pacific oyster.....	10,687	10	288	13	
Giant Pacific oyster.....	13,759	11	305	16	Dover sole.....	9,185	11	321	11	
Dover sole.....	7,327	12	394	13	Salmon.....	6,506	12	3,510	4	
Anchovy.....	7,115	13	161	19	Anchovy.....	5,061	13	74	18	
Salmon.....	6,853	14	3,097	4	Anchovy.....	3,266	14	696	12	
English sole.....	4,617	15	312	15	Sablefish.....	2,910	15	227	15	
Abalone.....	4,562	16	497	11	Squid.....	2,561	16	72	19	
White seabass.....	3,423	17	463	12	Petrale sole.....	2,476	17	286	14	
Bonito.....	3,031	18	118	19	Petrale sole.....	1,919	18	164	17	
Petrale sole.....	2,632	19	280	17	Ocean shrimp.....	2,027	19	203	16	
Sabine fish.....	2,232	20	141	18	Ocean shrimp.....	1,620	20	141	20	
All others.....	20,688		2,052		All others.....	14,854		1,712		
Totals.....	713,491		\$71,100		Totals.....	694,663		\$70,338		

TABLE 3
Landings and Shipments of Leading Species Ranked by Pounds and Value

TABLE 4
Licensed Commercial Fishermen

Area of residence	Number of fishermen by season ¹	
	1959-1960	1960-1961
Eureka.....	936	1,126
Sacramento.....	111	91
San Francisco.....	1,154	1,185
Monterey.....	727	677
Santa Barbara.....	534	566
Los Angeles.....	2,271	2,190
San Diego.....	1,502	1,506
Alaska, Washington and Oregon fishermen licensed in California.....	555	565
Mexican nationals licensed in California.....	24	22
Other registry.....	25	23
Totals.....	7,929	7,951

¹ The season is from April 1 to March 31.

TABLE 4
Licensed Commercial Fishermen

TABLE 5

Number of Fishing Boats by Length

Season ¹	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
1959-1960.....	631	1,698	1,054	139	47	103	3,672 ²
1960-1961.....	694	1,620	1,052	135	48	100	3,649 ³

¹ The season is from April 1 to March 31.

² The owners of 569 boats were issued fishing party licenses in 1959-60.

³ The owners of 530 boats were issued fishing party licenses in 1960-61.

TABLE 5
Number of Fishing Boats by Length

TABLE 6
Origin of Shipments of Fresh Fish Into California During 1960

Shipped from:	Species	Pounds shipped to each area			Total pounds
		San Francisco	Los Angeles	San Diego	
Continental United States:					
Miscellaneous fish.....		148,160	-----	-----	148,160
Oregon, Washington, Canada and Alaska:					
Sablefish.....		490,990	-----	-----	490,990
Salmon.....		284,733	-----	-----	284,733
Shad.....	4,593	32,418	-----	-----	37,011
Sturgeon.....		5,774	-----	-----	5,774
Miscellaneous fish.....		36,000	-----	-----	36,000
Mexico and Central America:					
Swordfish.....		7,212	-----	-----	7,212
Tuna, albacore.....	69,309	6,099,056	2,249	6,170,614	
Tuna, bigeye.....		1,285	-----	-----	1,285
Tuna, skipjack.....		1,119,505	945,935	2,065,440	
Tuna, yellowfin.....	845,908	8,469,213	1,580,687	10,895,808	
Mollusk:					
Clam, Pismo.....		525,392	-----	-----	525,392
South America:					
Tuna, skipjack.....		17,391,433	8,639,753	26,031,186	
Tuna, yellowfin.....		6,995,070	5,710,851	12,705,921	
Trinidad:					
Tuna, yellowfin.....		935,638	-----	-----	935,638
South Pacific (New Hebrides, Fiji):					
Tuna, albacore.....		1,826,089	-----	-----	1,826,089
Tuna, yellowfin.....	739,015	552,898	-----	-----	1,291,913
Borneo:					
Tuna, skipjack.....	109,833	86,425	-----	-----	196,258
Tuna, yellowfin.....	200,746	2,707	-----	-----	203,513
Japan:					
Tuna, albacore.....	2,917,472	20,872,818	4,478,464	28,268,754	
Tuna, bigeye.....		60,175	23,756	83,931	
Tuna, oriental.....	211,680	24,449	-----	236,129	
Tuna, skipjack.....	27,300	168,469	-----	195,769	
Tuna, yellowfin.....	16,557,384	34,396,489	1,973,928	52,907,801	
Australia:					
Tuna, bluefin.....	997,348	196,796	33,627	1,227,771	
China (Formosa):					
Tuna, albacore.....	53,220	-----	-----	53,220	
Tuna, yellowfin.....	1,110,360	148,865	-----	1,259,225	
Africa:					
Tuna, albacore.....		20,871	-----	20,871	
Tuna, skipjack.....		6,288	-----	6,288	
Tuna, yellowfin.....		3,141,425	-----	3,141,425	
Total pounds.....	23,824,168	104,046,703	23,389,250	151,260,121	

TABLE 6
Origin of Shipments of Fresh Fish Into California During 1960

TABLE 7
Origin of Commercial Fish Landings and Shipments Into California During 1960

Species	Landings from				Shipments ¹	Grand total
	California waters	Waters north of State	Waters south of State	Total pounds		
Fish:						
Anchovy	5,058,603	—	—	5,058,603	—	5,058,603
Barracuda, California	1,147,831	—	81,837	1,229,668	—	1,229,668
Bonito	1,219,682	—	30,862	1,250,544	—	1,250,544
Cabezon	3,060	—	—	3,060	—	3,060
Cabrilla	—	—	11,896	11,896	—	11,896
Carp	318,599	—	—	318,599	—	318,599
Croaker, white	1,078,119	—	—	1,078,119	—	1,078,119
Flounder	257,499	1,539	—	259,038	—	259,038
Flyingfish	70,881	—	—	70,881	—	70,881
Grouper	—	—	254,529	254,529	—	254,529
Hake	297,693	27,095	—	325,088	—	325,088
Halfmoon	2,604	—	—	2,904	—	2,904
Halibut, arrowtooth	828,910	178,769	—	1,007,679	—	1,007,679
Halibut, California	366,191	—	10,072	376,263	—	376,263
Halibut, Pacific	4,916	—	—	4,916	—	4,916
Hardhead	175,432	—	—	175,432	—	175,432
Herring, Pacific	1,800,672	—	—	1,800,672	—	1,800,672
Lingcod	1,229,022	78,051	—	1,307,073	—	1,307,073
Mackerel, jack	74,945,453	—	—	74,945,453	—	74,945,453
Mackerel, Pacific	36,808,540	—	150	36,808,690	—	36,808,690
Opahye	1,208	—	—	1,208	—	1,208
Perch	164,178	—	95	164,273	—	164,273
Pompano, California	15,429	—	—	15,429	—	15,429
Ratfish	600	—	—	600	—	600
Rockfish	13,266,150	329,203	118,533	13,713,886	—	13,713,886
Sablefish	2,228,732	190,292	—	2,419,024	490,990	2,910,014
Salmon	6,220,373	1,072	—	6,221,445	284,733	6,506,178
Sanddab	346,333	2,040	—	348,373	—	348,373
Sardine	57,532,719	—	—	57,532,719	—	57,532,719
Sargo	222	—	—	222	—	222
Solepin	29,203	—	—	29,203	—	29,203
Solepin, stachorn	316	—	—	316	—	316
Sea bass, black	20,565	—	221,125	241,690	—	241,690
Sebastass, white	1,086,895	—	149,303	1,236,198	—	1,236,198
Shad	—	—	—	—	37,011	37,011
Shark	669,184	—	25,007	694,191	—	694,191
Sheep-head	4,288	—	452	4,740	—	4,740
Skate	146,934	—	—	146,934	—	146,934
Smelt	429,299	—	—	429,299	—	429,299
Sole, Dover	7,980,119	1,204,695	—	9,184,814	—	9,184,814
Sole, English	2,340,568	34,815	—	2,375,383	—	2,375,383
Sole, petrale	2,359,747	115,873	—	2,475,620	—	2,475,620
Sole, rex	1,078,643	28,729	—	1,107,372	—	1,107,372
Sole, sand	72,727	737	—	73,464	—	73,464
Sole, miscellaneous	228,066	—	—	228,066	—	228,066
Splittail	675	—	—	675	—	675
Sturgeon	—	—	—	—	5,774	5,774
Swordfish	320,143	—	4,611	324,754	7,212	331,966
Tuna, albacore	32,056,980	69,104	2,986,543	35,112,627	36,339,548	71,452,175
Tuna, bigeye	—	—	—	—	85,216	85,216
Tuna, bluefin	4,339,031	—	7,613,480	11,952,511	1,227,771	13,180,282
Tuna, oriental	—	—	—	—	236,129	236,129
Tuna, skipjack	24,199	—	46,279,495	46,303,604	28,494,941	74,798,635
Tuna, yellowfin	10,482	—	189,296,372	189,306,854	83,341,244	272,648,098
Turbot	62,438	—	—	62,438	—	62,438
Wahoo	—	—	15,917	15,917	—	15,917
Whitebait	168,458	—	—	168,458	—	168,458
Whitefish, ocean	2,550	—	968	3,518	—	3,518
Yellowtail	156,518	—	92,115	248,633	—	248,633
Miscellaneous fish	64,885	—	97	64,982	184,160	249,142

TABLE 7
Origin of Commercial Fish Landings and Shipments Into California During 1960

TABLE 7—Continued
Origin of Commercial Fish Landings and Shipments Into California During 1960

Species	Landings from				Shipments ¹	Grand total
	California waters	Waters north of State	Waters south of State	Total pounds		
Crustacean:						
Crab, market	14,869,475	6,673	-----	14,876,148	-----	14,876,148
Crab, rock	120,903	-----	-----	120,903	-----	120,903
Lobster, spiny	351,032	-----	-----	351,032	-----	351,032
Prawn	147	-----	-----	147	-----	147
Shrimp, bay	1,580	-----	-----	1,580	-----	1,580
Shrimp, ocean	2,019,457	7,330	-----	2,026,787	-----	2,026,787
Mollusk:						
Abalone	4,266,408	-----	-----	4,266,408	-----	4,266,408
Clam, gaper	488	-----	-----	488	-----	488
Clam, jackknife	6,988	-----	-----	6,988	-----	6,988
Clam, Pismo	-----	-----	-----	-----	525,392	525,392
Clam, Washington	1,655	-----	-----	1,655	-----	1,655
Octopus	1,610	-----	-----	1,610	-----	1,610
Oyster, eastern	2,072	-----	-----	2,072	-----	2,072
Oyster, giant Pacific	10,686,856	-----	-----	10,686,856	-----	10,686,856
Squid	2,561,520	-----	-----	2,561,520	-----	2,561,520
Miscellaneous mollusk	120	-----	-----	120	-----	120
Total pounds	293,933,475	2,276,017	247,193,459	543,402,951	151,260,121	694,663,072

¹ For origin of shipments refer to Table 6.

TABLE 7
Origin of Commercial Fish Landings and Shipments Into California During 1960

TABLE 8
Monthly Landings and Shipments Into California During 1960

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS:													
Fish:													
Anchovy.....	653,605	854,980	580,840	380,410	255,315	103,988	554,225	338,730	608,980	315,790	137,730	274,001	5,058,603
Barracuda, California.....	36,644	40,913	103,554	125,570	211,133	350,915	57,578	47,480	68,201	74,926	71,096	42,973	1,229,668
Cabazon.....	680	294,757	225,747	203,921	23,430	67,686	37,995	156,446	31,131	37,374	109,506	31,018	1,250,541
Catfish.....	430	—	1,092	673	424	8	—	—	132	—	48	—	1,049
Catfish, white.....	845	—	—	—	—	—	—	—	—	—	8,835	2,216	11,896
Carp.....	31,093	18,235	30,215	38,905	29,885	20,145	16,180	7,755	25,985	21,550	19,395	59,466	318,599
Catfish, white.....	63,024	41,954	88,595	12,259	53,020	53,020	32,140	24,062	21,090	20,062	37,177	1,078,119	
Founder.....	19,669	3,837	57,815	10,392	3,849	11,017	34,570	11,089	17,147	23,142	24,937	13,770	498,683
Flyingfish.....	4,110	19,783	32,854	14,116	14,373	27,004	18,613	9,149	1,080	760	—	—	70,881
Gurnard.....	10,796	—	9,955	—	7,562	22,269	27,192	4,355	63,221	113,838	23,681	3,225	325,688
Hake.....	644	530	46	—	—	—	—	—	220	—	12	—	3,484
Halibut, arrowtooth.....	16,559	15,879	43,373	35,064	107,162	169,536	161,953	126,710	141,288	152,060	34,854	13,697	1,007,679
Halibut, California.....	35,667	37,969	55,135	41,373	24,027	27,185	19,250	24,062	17,607	27,261	36,595	11,590	376,263
Halibut, Pacific.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Haddock.....	15,906	50,182	30,309	23,908	15,975	2,495	531	1,905	4,800	9,190	7,730	14,000	175,132
Herring, Pacific.....	1,155,155	200,767	600	153,594	79,500	107,451	69,721	19,451	8,609	9,190	5,206	5,235	1,800,672
Mackerel, jack.....	21,237	68,455	64,516	81,810	64,146	84,014	212,193	274,121	142,577	55,266	45,197	1,307,073	
Mackerel, Pacific.....	10,953,672	4,539,675	15,718,725	3,960,390	1,253,550	99,155	4,652,245	6,284,245	6,184,245	14,000,245	5,190,245	1,437,457	38,808,690
Mackerel, Pacific.....	3,433,483	2,054,381	2,613,719	988,263	361,397	727,169	838,637	1,289,264	5,991,338	9,489,297	3,384,633	2,637,171	38,808,690
Opah.....	122	260	—	—	38	188	—	—	—	—	580	1,208	—
Percy.....	7,651	7,233	38,778	11,232	67	21	20,987	19,730	12,262	8,112	3,038	5,219	164,273
Porgy, California.....	1,720	253	198	161	615	2,913	1,675	371	600	1,900	1,173	1,514	1,514
Ratfish.....	867,348	906,783	1,426,141	1,171,837	1,270,811	1,359,621	1,247,110	1,037,181	1,172,468	1,167,622	1,088,372	1,007,562	13,713,886
Sabefish.....	98,653	75,031	209,024	198,162	159,504	161,008	222,481	222,780	263,201	316,231	264,180	227,461	2,119,024
Sanddab.....	13,819	7,910	31,331	21,826	1,341	17,714	1,926	1,090	261,196	10,180	10	6,292	6,245,145
Sardine.....	373,785	276,879	419,459	368,600	433,302	284,064	268,701	4,867,158	23,041,293	16,267,322	8,338,276	2,958,883	37,532,719
Sardine.....	139	117	—	—	—	—	—	10	—	—	—	—	228
Solepin.....	28	263	2,631	1,141	1,022	6,328	6,628	3,287	2,228	1,590	2,241	1,841	29,155
Solepin, staghorn.....	10,972	10,099	6,161	9,034	4,749	25,772	3,570	35,192	23,217	60,641	50,517	28,894	38,738
Sea bass, black.....	106,937	116,489	362,363	21,251	26,288	23,285	30,171	293,975	224,400	101,797	98,168	14,596	39,384
Sea bass, white.....	157,777	22,094	27,437	68,108	78,147	151,680	32,571	14,821	97,381	97,720	65,316	76,607	1,238,195
Shark.....	—	—	—	—	—	—	—	—	—	—	—	—	99,191

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TABLE 8
Monthly Landings and Shipments Into California During 1960

TABLE 8—Continued
Monthly Landings and Shipments Into California During 1960

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds	
LANDINGS—Continued														
Fish—Continued														
Codhead.....	438	656	785	43	180	373	172	73	501	213	499	807	4,740	
Skate.....	4,805	3,475	18,424	20,318	11,235	12,803	11,140	18,780	10,565	9,510	15,278	7,691	146,934	
Smelt.....	21,112	6,440	21,784	12,359	12,205	41,090	66,677	1,343,013	73,356	26,135	5,191	48,727	459,509	
Sole, Dover.....	10,259	14,776	53,770	93,279	92,119	88,878	1,260,707	1,314,536	1,204,161	1,014,456	447,282	196,842	9,181,814	
Sole, English.....	106,057	77,995	202,176	166,343	188,332	148,826	184,608	208,264	217,050	289,513	196,842	389,477	2,375,533	
Sole, petrale.....	243,591	126,230	115,323	96,396	103,885	189,133	290,730	186,494	176,120	261,104	246,877	439,767	2,475,620	
Sole, rex.....	92,267	109,292	134,673	71,262	90,030	65,200	71,767	88,545	97,777	119,291	76,262	90,195	1,107,372	
Sole, sand.....	179	102	130	107	100	2,057	2,457	2,584	2,475	2,306	2,036	1,945	11,274	
Sole, miscellaneous.....	1,674	1,231	1,873	1,610	13,901	25,069	17,682	21,305	34,205	43,075	29,888	33,623	228,066	
Splittail.....	353	150	40	40	40	40	40	40	40	40	40	40	40	
Swordfish.....	—	—	—	—	419	59,729	4,160	81,354	95,932	28,850	310	—	321,754	
Tuna, albacore.....	—	—	—	—	—	109	1,109	1,109	1,109	1,109	1,109	1,109	38,129	
Tuna, bluefin.....	142,842	133,571	2,328	—	—	42	2,196,553	4,037,493	2,150,818	1,602,115	1,194,210	472,241	10,063	11,952,511
Tuna, skipjack.....	3,649,367	3,495,921	4,130,688	2,385,769	854,882	5,712,869	6,869,428	1,021,188	3,330,884	5,404,675	3,895,767	2,852,274	46,305,614	
Tuna, yellowfin.....	9,941,984	10,983,220	26,153,535	17,574,721	24,603,393	21,918,014	15,005,263	5,696,159	7,119,160	11,372,869	11,746,116	20,187	180,554,584	
Turbot.....	3,316	1,504	1,115	2,639	2,448	2,020	6,135	8,195	6,005	8,076	11,297	7,504	82,488	
Tuskfish.....	—	1,477	1,039	—	5,140	—	—	—	—	—	—	3,259	15,917	
Whitebait.....	4,270	17,895	33,104	32,690	45,703	23,763	5,008	5,524	2,466	—	—	125	168,458	
Whiting, ocean.....	—	383	281	129	291	291	291	291	291	291	291	291	2,131	
Widowfish.....	17,221	20,231	3,008	15,617	21,601	12,868	7,368	10,571	44,635	36,428	29,441	26,644	248,633	
Miscellaneous fish.....	43,358	56	117	100	388	187	108	119	4,955	4,610	1,822	9,162	64,982	
Crustaceans:														
Crab, market.....	4,485,151	1,510,757	2,656,813	1,568,557	1,367,816	206,139	11,980	8,096	8,134	1,370,786	1,689,110	14,876,118	—	
Crab, rock.....	8,464	9,495	16,202	10,376	10,704	15,407	12,640	11,713	—	8,134	2,632	6,770	129,003	
Crab, spiny.....	39,648	37,997	21,038	—	—	—	—	35	112	—	116,495	71,774	35,002	
Prawn.....	—	—	—	—	—	—	—	—	—	—	—	—	147	
Shrimp, bay.....	—	—	—	—	—	—	340,528	242,439	490,750	668,803	326,327	18,150	—	
Shrimp, ocean.....	—	—	—	—	—	—	—	—	—	—	—	2,028,767	—	
Clams:														
Almond.....	322,403	—	345,051	317,271	383,960	562,759	418,685	457,270	429,634	348,118	301,683	319,571	4,266,408	
Clam, gaper.....	20	80	—	40	—	—	—	—	—	248	40	60	188	
Clam, jackknife.....	161	276	564	796	1,174	1,243	—	723	767	785	345	100	9,988	
Clam, Washington.....	174	234	606	272	78	—	—	—	785	162	—	119	1,655	

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TABLE 8
Monthly Landings and Shipments Into California During 1960

Otopor.....	55	269	80	900	85	227	130	191	243	1,610
Oyster, eastern.....	610	521	501	112	23	433,307	256,137	336,046	509,770	1,063,959	1,259,284
Oyster, giant Pacific.....	1,337,783	1,145,539	1,180,461	1,174,567	675,181	39,175	356,000	472,650	866,069	212,200	1,321,829
Squid.....	75,796	9,830	78,000	257,160	33	20	3,275	112,369	84,800
Miscellaneous mollusks.....	3	24	20	120	120
Total pounds.....	38,857,099	33,768,307	38,010,267	33,194,569	34,843,905	39,540,452	40,480,999	52,292,588	61,754,427	60,363,986	49,524,927
SHIPMENTS:											
FISH:											
Sabrefish.....	15,000	105,794	16,123	11,323	64,082	40,916	167,848	63,308	5,996
Suron.....	64,692	45,496	4,846	5,148	21,023	59,329	69,057	5,691	28,733
Shad.....	37,011
Sturgeon.....	289	187	1,795	1,408	2,005	5,774
Trout.....	1,730	220	7,732
Tuna, albacore.....	3,530,309	5,120,735	7,002,295	4,452,266	3,850,433	1,002,400	923,407	996,900	645,711	1,888,697	3,568,535
Tuna, bigeye.....	9,820	337,140	347,888	50,353	23,736	1,283
Tuna, bluefin.....	23,220	34,419	1,141	1,070	519,543	85,216
Tuna, longtail.....	2,594,710	1,971,091	2,857,629	5,279,723	3,515,019	2,764,519	1,120
Tuna, skipjack.....	4,538,501	1,034,269	279,659	2,739,164	14,290	20,285	9,570	60,090	36,095	18,380	28,49,941
Tuna, yellowfin.....	5,401,056	5,126,561	6,001,044	8,600,774	7,800,213	10,853,681	7,607,615	7,070,500	8,277,255	6,551,420	4,112,166
Mollusk:											
Clam, Pismo.....	192,000	197,520	78,480	8,192	49,200
Total pounds.....	13,509,761	11,308,168	13,444,265	16,131,318	14,725,660	14,065,728	12,222,003	13,630,368	12,611,589	11,399,056	8,652,799
Grand total.....	52,168,860	45,166,475	71,454,532	49,325,917	49,569,514	53,604,180	52,703,022	65,922,954	74,386,016	71,783,042	58,177,728

¹ For origin of shipments refer to Table 6.

MARINE FISH CATCH FOR 1960

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TABLE 8—Cont'd.

TABLE 9

Monthly Landings of Commercial Fishing Boats in the Eureka Area During 1960

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Codender.....	17,897	1,670	37,166	4,203	2,060	355	18,318	2,014	4,107	13,020	1,860	37,467	113,885
Hake.....	10,766	6,437	5,955	5,312	20,756	58,186	82,613	12,188	206,503	12,188	206,503
Halibut, shorttooth.....	16,299	14,624	28,009	88,480	125,501	145,656	103,750	112,153	95,470	30,858	12,982	796,529	796,529
Halibut, California.....	53	508	332	36	83	1,916	1,916
Halibut, Pacific.....	874	1,580	643	508	946	38	4,916	4,916
Herring, Pacific.....	6,730	1,907	28,655	30,528	51,362	45,838	51,128	132,510	131,134	66,713	27,972	29,118	6,730
Lingcod.....	3,106	1,260	18,765	1,259	1,259	1,259	1,259	1,259	1,259	1,259	1,259	1,259	639,809
Mackerel.....	3,032	2,660	18,760	1,259	1,259	1,259	1,259	1,259	1,259	1,259	1,259	1,259	227,512
Rockfish.....	75,181	169,360	307,879	180,317	267,262	149,860	282,937	362,001	403,395	291,368	182,832	192,053	2,864,465
Sablefish.....	25,530	572	58,842	85,460	92,813	91,309	127,364	137,533	180,702	170,142	116,670	71,508	1,158,337
Salmon.....	42,315	508,961	245,480	1,022,565	168,687	145,326	14,327	3,450	15,058	2,436,334	2,436,334
Smelt.....	6,694	2,416	16,362	9,825	5,828	2,780	10,203	3,250	45	1,695	73	1,723	8,352
Shark.....	187	2,100	6,000	65	1,200	1,200	1,200	1,200	1,200	1,200	2,668
Skate.....	153	427	120	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	2,668
Sole, Dover.....	15,682	420	166,065	432,539	205,853	650,120	1,255,182	1,161,003	1,015,466	734,069	309,007	51,232	6,328,313
Sole, English.....	61,481	34,790	91,745	88,267	120,532	47,019	56,203	55,630	47,411	111,289	77,489	283,464	1,115,870
Sole, petrale.....	77,884	33,157	39,653	26,051	36,826	27,693	78,017	68,654	61,261	79,425	65,318	96,100	680,081
Sole, rex.....	14,820	10,343	21,907	28,149	46,297	27,985	43,158	55,839	50,843	61,353	29,399	24,997	359,997
Sole, vermicular.....	116	145	363	60	870	839	1,174	5,588	16,745	16,745
Sole, miscellaneous.....	150	40	5,000	15,750	24,432	23,500	6,132	21,895	96,899	96,899
Tuna, albacore.....	10	4,243	12,080	1,516,430	171,826	25,579	1,729,864	1,729,864	1,729,864
Turbot.....	1,516	311	135	135	135	135	135	1,313	1,313	379	3,112	1,191	4,294
Walleye.....	354	13,846	30,131	28,900	39,482	20,796	4,943	5,128	2,315	125	145,980	145,980
Miscellaneous fish.....	30	16	46	46
Crustacean:													
Crab, market.....	4,034,986	1,276,766	2,273,704	1,171,115	1,049,827	206,031	11,980	1,243,856	11,268,263
Crab, rock.....	548	314,932	214,080	424,112	604,648	280,602	548	548
Shrimp, ocean.....	314,932	214,080	424,112	604,648	280,602	1,834,374

TABLE 9
Monthly Landings of Commercial Fishing Boats in the Eureka Area During 1960

Mollusk:											
Clam, geper.....	174	251	596	372	78	188	188
Oyster, Washington.....	177	50	182	119	1,655
Octopus.....	1,129,580	980,760	1,038,830	1,045,830	606,000	366,450	199,277	296,160	410,100	921,000	1,066,800
Oysters, Pacific.....	3	12	304
Miscellaneous mollusk.....	15
Total pounds.....	5,500,624	2,547,649	4,141,621	3,237,473	3,826,949	2,265,780	3,843,030	3,601,767	1,575,165	2,899,844	1,967,966
Waters north of State:											
Fish:											
Flounder.....	450	40	12	245	1,629
Hake.....	795	27,025
Haddock, arrowtooth.....	17,512	5,830	15,763	28,437	8,292	11,500	28,000	31,010	56,030	4,000	178,769
Lingcod.....	1,157	339	4,103	12,930	9,272	11,264	19,592	18,190	1,204	78,051
Lobster.....	39,573	14,370	34,780	15,846	35,913	29,574	35,785	76,327	45,529	329,033
Sablefish.....	31,053	15,122	21,853	13,431	2,355	12,057	20,336	51,328	23,477
Salmon.....	1,009	113	26	190,292
Sandlance.....	288	142	410	586	518	70	26	1,072
Sole, flat.....	18,411	45,194	19,041	16,030	61,241	125,541	19,041	25,600	71,243	2,040
Sole, English.....	3,055	692	5,073	5,263	3,413	7,803	2,934	6,387	1,185	13,000
Sole, petrale.....	1,312	1,632	3,205	7,433	11,229	11,169	8,351	68,144	3,368	115,873
Sole, rex.....	3,296	3,054	7,891	3,069	1,969	3,184	2,415	3,006	815	28,729
Sole, sand.....	70	667	737
Crustacean:											
Crab, market.....	7,330	6,673	6,673
Shrimp, ocean.....	7,330
Total pounds.....	27,322	84,282	278,355	204,099	134,562	223,286	287,487	550,806	150,331
Grand total.....	5,500,624	2,547,649	4,419,853	3,321,655	4,106,304	2,459,879	3,977,592	3,825,053	4,862,652	3,459,450	2,116,297
											3,205,475
											43,813,683
											1960

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TABLE 9—Cont'd.

TABLE 10
Monthly Landings and Shipments of Commercial Fish Into the San Francisco Area During 1960¹

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Ashley,	31,093	18,129	29,662	37,770	29,875	20,145	16,180	7,755	500	21,550	19,365	39,466	600
Croaker, white,	14	227	257	25	455	45	1,161	1,272	70	145	145	145	1,454
Dolphin,	88	2,305	14,569	3,707	1,740	10,235	15,551	0,033	15,000	18,770	18,770	3,250	106,910
Hake,	1,125	8,925	15,970	5,035	11,125	11,125	11,125	11,125	67,610
Halibut, arrowtooth,	260	1,235	5,105	1,225	2,880	9,905	7,765	2,460	1,135	185	185	115	31,980
Halibut, California,	1,675	699	1,874	288	628	921	1,762	1,023	1,298	6,691	5,122	21,981
Herring,	15,900	50,309	30,309	23,008	18,575	2,495	511	1,945	4,800	9,190	7,730	13,235	171,122
Herring, Pacific,	1,148,705	200,757	20,008	3,235	1,351,697
Lingcod,	3,265	5,091	23,361	20,777	43,307	63,551	59,873	55,064	51,340	34,326	16,018	3,718	375,289
Mackerel, jack,	173	1,488	3,862	562	2,000	1,140	2,160	5,885
Perch,	3,097	4,415	14,710	5,071	76	1,561	1,072	2,000	2,140	3,351	32,485
Pinfish,	247,540	291,730	356,536	315,550	345,369	359,118	302,629	215,936	203,115	166,803	261,267	166,803	3,290,047
Sabrefish,	69,350	69,382	101,700	94,060	27,820	33,050	69,700	71,307	44,965	76,131	90,262	95,187	845,224
Salmon,	155,369	294,774	1,031,376	790,328	359,808	35,567	2,889,532
Sanddab,	6,245	4,765	9,580	6,825	3,265	6,835	15,690	21,435	33,105	28,720	23,405	18,612	183,512
Sandlance, staghorn,	688	177	708	26,149	19,670	8,964	7,874	61,152
Sealions, white,	420	1,515	6,225	240	3,268	4,349	12,399	12,399	12,399	6,667	61,151
Shark,	1,655	1,400	7,775	11,450	3,520	7,065	8,890	13,450	5,200	8,140	14,186	7,000	92,191
Smelt,	709	3,856	3,007	6,410	1,834	2,224	2,900	7,055	2,181	867	210	145	32,568
Sole, Dover,	8,297	145,490	194,368	472,200	161,702	77,226	47,724	45,700	100,499	49,353	58,506	88,872	1,520,952
Sole, English,	27,796	21,223	42,116	27,953	24,840	46,884	41,118	96,111	139,000	83,530	83,809	74,481	723,309
Sole, flat,	65,261	41,572	21,253	21,253	52,261	56,118	20,103	20,103	80,000	63,200	63,200	63,200	121,201
Sole, red,	59,154	74,392	63,370	30,211	29,655	29,655	10,405	21,865	30,140	43,140	33,331	49,013	486,571
Sole, sand,	265	510	940	835	2,495	2,265	5,330	7,065	7,355	19,405	7,710	51,225
Sole, miscellaneous,	355	150	40	6,315	4,175	3,355	11,120	7,660	3,783	36,410
Tuna, albacore,	1,770	1,105	1,453	1,970	1,565	2,020	4,285	8,195	6,695	958,421	59,983	16,475	3,035,070
Turbot,	883	2,944	2,892	3,700	1,821	2,907	4,080	60	161	7,075	11,585	4,099	52,968
Whiting,	10	10	30	34	15,279
Miscellaneous fish,	84

TABLE 10
Monthly Landings and Shipments of Commercial Fish Into the San Francisco Area During 1960

Crustacean:															
Crab, market.....	404,868	218,653	336,742	314,288	289,974	90	215	300	535	1,349,290	425,189	3,360,108		
Shrimp, bay.....	25,596	1,644	8,192	7,945	45,725	18,150	135	1,580		
Shrimp, ocean.....	110,252		
Mollusk:															
Ahalone.....	1,760	3,050	2,950	1,140	4,175	2,300	2,425	2,460	1,825	773	623	23,625		
Oyster, ocean.....	155	20	80	140	130	40	180	745		
Oyster, eastern.....	640	624	501	112	75	120	2,072		
Oyster, giant Pacific.....	26,008	18,014	17,336	24,732	26,906	12,082	21,462	13,521	26,920	19,984	27,569	27,889	262,566		
Total pounds.....	2,212,851	1,179,640	1,309,265	1,563,270	1,375,391	1,801,296	1,850,165	2,401,935	1,773,344	1,773,288	2,204,941	1,290,910	20,439,299		
SHIPMENTS:²															
Fish:															
Salmon.....	99,980	139,630	162,230	262,610	9,620	242,900	108,520	345,480	34,000	57,152	652,739	558,839	4,593	3,010,001	
Tuna, albacore.....	23,220	29,800	347,800	300,000	314,148	
Tuna, longtail.....	10,000	2,010	199,670	211,680	
Tuna, skipjack.....	1,093,370	1,547,248	1,865,620	1,416,390	1,589,514	2,126,510	1,431,490	2,088,431	1,934,430	906,806	1,308,861	1,824,243	19,435,413		
Tuna, yellowfin.....	27,300	137,748	
Total pounds.....	1,816,570	1,696,878	1,995,156	1,859,540	2,483,252	2,360,410	2,022,983	2,545,741	1,968,430	963,058	2,021,600	2,082,773	23,824,168		
Grand total.....	4,029,421	2,676,518	3,304,415	3,452,810	3,858,643	4,170,706	3,573,028	4,948,679	3,741,774	2,737,248	4,226,544	3,343,683	44,263,467		

¹ Includes Sacramento area landings.² For origin of shipments refer to Table 6.

TABLE 10—Cont'd.

TABLE 11
Monthly Landings of Commercial Fishing Boats in the Monterey Area During 1960

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds	
LANDINGS FROM: California waters:														
Fish:														
Anchovy.....	326,345	156,875	10,850	17,350	9,100	22,778	88,400	25,405	259,285	128,053	82,190	164,026	1,290,657	
Bonito.....	430	937	933	421	8	31	9	1,395	1,435	
Cod, green.....	430	106	553	925	10	71	68	233	2,014	
Croaker, white.....	23	214	20,460	5,342	6,376	9,469	6,801	13,928	4,236	5,589	538	143	73,576	
Flounder.....	1,558	4,867	2,397	205	40	250	1,210	1,260	11,917	
Gale.....	472	47	654	131	78	306	544	509	183	339	450	185	16,476	
Hake, California.....	1,880	1,757	82,460	82,584	30,450	30,300	30,300	30,300	30,300	
Herring, Pacific.....	10	600	153,894	79,569	107,451	69,721	19,451	8,009	439,245	
Lingcod.....	6,341	1,726	7,910	5,939	5,753	9,621	14,342	8,899	14,970	13,871	5,488	4,991	97,819	
Mackerel, jack.....	280	6,000	89,035	278,630	103,790	9,576	13,061	258,460	914,379	135,275	62,088	3,270	2,263,144	
Mackerel, scad.....	1,880	1,757	82,460	82,584	30,450	30,300	30,300	30,300	30,300	
Perch.....	27	460	3,463	2,209	385	5	3,095	1,584	997	24	35	11,494
Pompano, California.....	46	385	5	371	1,662	2,600	
Porgy.....	600	600	
Rockfish.....	355,700	201,057	400,007	357,216	328,758	502,333	322,372	276,518	272,793	194,944	122,011	228,894	3,583,505	
Sablefish.....	2,803	4,203	10,975	2,735	16,582	18,583	16,932	1,700	16,433	15,630	35,300	30,300	199,027	
Salmon.....	243,421	324,108	155,628	87,302	1,906	513	815,775	
Sardine.....	366	569	4,766	4,744	1,144	1,044	1,044	1,044	6,147	7,444	2,039	5,688	41,259	
Sardine.....	10,255	1,355	150	3,405	2,481	2,556,496	314,639	75,275	3,003,143	
Seabass, white.....	40	3,703	1,234	421	247	10,668	29,103	740	1,852	1,944	49,961	
Shark.....	1,722	1,782	545	20	142	17,212	4,099	3,806	8,900	4,412	4,465	7,052	54,157	
Sole, black.....	3,150	2,001	1025	6,355	2,295	1,236	1,236	1,236	4,505	3,550	1,002	43,115	
Sole, smelt.....	1,255	160	465	1,100	2,296	2,608	3,008	1,929	5,350	4,174	864	2,674	28,973	
Sole, Dover.....	23,292	1,995	2,310	3,005	9,977	8,275	5,350	4,245	49,647	
Sole, English.....	8,154	5,039	31,545	31,308	29,085	33,702	30,366	40,474	25,980	18,870	5,110	4,578	264,517	
Sole, grenade.....	331	110	11,201	21,198	17,908	20,309	29,125	20,240	11,190	100	100	100	331,000	
Sole, rex.....	7,470	15,956	31,750	6,968	7,765	1,991	3,448	3,448	4,212	2,679	8,627	2,140	4,027	93,530
Sole, miscellaneous.....	48	369	374	793	90	452	168	168	315	65	525	1,503	4,695
Tuna, albacore.....	68,178	1,352,198	947,948	304,910	2,893,940	
Tuna, skipjack.....	3,063	11,108	31	18	38	
Whiting.....	19	30	4,249	4,249	
Miscellaneous fish.....	49	

TABLE 11
Monthly Landings of Commercial Fishing Boats in the Monterey Area During 1960

Crustacean:												
Crab, market.....	9,183	8,039	9,159	3,676	815	18	15,203	8,590	
Mollusk:												
Abalone.....	20	80	40	350	2,667	80	40	60	
Cuttle, paper.....	29,155	256,760	39,175	350,045	472,650	865,060	212,300	3,273	6,515	
Squid.....	12	53	20	20	
Miscellaneous mollusk.....	105	
Grand total.....	726,682	412,927	1,124,350	1,489,108	976,792	1,280,962	1,269,282	5,582,923	3,124,303	1,183,120	349,182	500,206
											18,019,737	

MARINE FISH CATCH FOR 1960

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TABLE 11—Cont'd.

TABLE 12
Monthly Landings of Commercial Fishing Boats in the Santa Barbara Area During 1960

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM: California waters:													
Fish:													
Anchovy.....	5,775	3,905	7,455	1,610	1,400	3,405	1,505	35,515					
Bait fish, California.....	35,783	36,114	54,819	4,665	176	273	27,742	86,688	61,554	25,977	1,555	305,010	
Bonito.....	508	102	14	75	20	146	5,807	21,362	19,942	14,175	43,185	105,336	
Cabazon.....	395	40	61	4	
Cod, white.....	205	28	233
Flounder.....	119	53	810	232	2	150	97	44	1,507	
Hake.....	7,410	7,410	
Hallibut, California.....	23,102	20,897	31,211	17,553	17,004	15,738	15,553	14,340	6,252	9,558	8,612	23,502	260,874
Ling, California.....	1,000	935	1,065	6,565	26,275	18,500	18,500	15,000	5,000	17,777	5,000	115,425	115,425
Mackerel, jack.....	1,001,920	1,208,300	1,033,300	325,450	291,000	410,080	140	423,961	794,830	425,631	5,550,220	1,634,073	13,197,907
Mackerel, Pacific.....	203,000	19,630	52,900	1,024	4,640	18,997	22,226	14,365	21,761	73,013
Perch.....	883	356	1,782	321	365	1,517	2,270	584	328	403	8,869	
Pompano, California.....	11
Red snapper.....	108,247	145,732	209,154	233,254	222,686	258,319	250,586	115,114	221,607	338,060	394,545	325,596	2,823,400
Sablefish.....	1,270	1,774	3,366	545	1,110	4,480	6,130	100	1,575	651	1,395	22,398
Salmon.....
Sandlub.....	227	358	90	2,197	1,197	3,197
Seal.....	80,610	129,100	205,300	213,500	171,925	231,450	251,110	1,515,590	3,668,505	5,528,480	2,558,890	675,505	15,220,734
Sea bass, black.....	822	427	45	339	25	396	283	2,330
Sea bass, white.....	89,635	69,082	14,709	6,440	6,530	6,281	11,146	52,542	26,332	29,410	29,460	21,165	366,700
Shark.....	12,825	3,450	2,165	6,848	3,500	8,017	4,242	4,593	3,158	5,478	12,878	9,724	77,967
Sole, head.....	1,150	15	5	88	172	870	
Sole, Dover.....	1,850	1,165	11,532	3,655	3,385	18,805	5,855	1,715	3,570	4,530	3,620	2,265	62,207
Sole, English.....	8,620	10,046	31,371	18,181	14,141	31,371	18,181	14,141	10,485	20,126	20,126	20,126	200,572
Sole, flat.....	9,620	9,620	10,837	25,340	20,320	78,904	115,645	9,542	23,940	15,180	115,713	179,342	760,432
Sole, rex.....	10,820	8,134	11,167	3,280	1,780	2,470	3,700	645	2,985	3,103	3,754	7,547	63,775
Sole, sand.....	68	1,216	107	161	27	135	6	1,757		
Sole, miscellaneous.....	1,470	871	1,437	799	8,610	18,285	17,325	1,520	6,015	9,074	15,536	8,438	80,175
Tuna, albacore.....	1,081	0,981	0,981	18,635	17,919	9,989	54,200
Turbot.....	178	525	666	673	15	677	22	212	2,276	
Yellowtail.....	194	1,879	54	4,111	492	718	5,460	1,383	1,540	4,955	1,822	9,622	16,593
Miscellaneous fish.....	79	140	60	4,955	4,955	

TABLE 12
Monthly Landings of Commercial Fishing Boats in the Santa Barbara Area During 1960

TABLE 12—*Cont'd.*

Crustacean:												
Crab, rock	36,114	16,302	37,208	49,473	27,200	7,284	3,794	4,118	320	6,284	4,841
Crab, rock	1,504	4,352	11,280	3,401	5,209	42,370	42,370
Lobster, spiny	12,804	12,051	3,889	7,284	3,794	4,118	320	13,319	8,074	11,883
Prawn	35	112	147
Shrimp, ocean	16,935	58,116	74,881
Mollusk:												
Avalone	187,736	238,872	205,378	290,306	356,908	304,586	295,567	295,338	264,626	200,146	248,968
Octopus	26	110	35	150	321
Oyster, giant Pacific	181,975	146,625	124,675	194,135	39,375	54,775	35,175	26,425	33,450	112,075	164,575	199,900
Grand total	2,118,749	1,998,023	2,127,527	1,241,604	1,103,099	1,573,179	1,493,698	3,735,970	6,363,741	8,544,987	9,336,458	4,195,350
												43,832,285

TABLE 13
Monthly Landings and Shipments of Commercial Fish Into the Los Angeles Area During 1960

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds	
LANDINGS FROM: California waters:														
Fish:														
Sardine, California	327,060	692,330	569,990	359,665	248,725	73,755	66,215	311,925	345,630	187,746	55,540	108,050	3,741,831	
Barracuda, California	117	46,052	116,453	187,366	346,226	56,024	19,209	10,297	10,053	11,420	1,498	805,115		
Bonito	59,227	293,872	227,959	48,398	20,411	11,401	37,478	140,478	8,218	13,170	9,624	106,440	1,141,111	
Orange roughy	633,230	425,15	600,000	25,521	52,151	25,762	13,750	37,762	14,040	8,434	8,434	35,561	1,009,696	
Pacific herring	14,373	27,006	18,513	9,149	1,080	70,121	
Halfmoon	644	530	46	37	220	12	1,415	2,904		
Halibut, California	4,075	11,786	17,134	16,760	3,118	7,680	1,399	1,250	1,551	8,738	4,658	7,049	85,722	
Dolphin, California	34	17	27	20	1	1	1	1	3	43	28	10	100	
Mackerel, jack	9,902,872	3,531,633	11,404,543	3,304,129	859,100	565,526	717,747	4,252,262	4,573,510	5,576,385	3,819,047	3,561,451	59,476,517	
Mackerel, Pacific	3,250,385	2,034,616	2,558,946	915,130	361,247	729,392	812,284	4,010,840	4,960,134	7,802,074	3,194,031	1,871,797	32,504,874	
Oakley	122	260	40	100	58	188	580	
Pacific	22	22	24	24	24	24	100	100	100	26	143	143	1,208	
Pompano, California	1,720	253	150	1,561	130	2,940	521	1,178	1,178	1,900	1,250	1,173	12,776	
Rockfish	58,349	60,715	58,817	41,431	43,133	53,174	36,833	24,802	22,751	29,702	47,828	49,893	526,428	
Sablefish	220	51	273	544	
Salmon	5,000	1,000	12	10	5,482	
Sardines	215	581	367	133	72	142	142	10	1,310	
Sardine	293,175	147,770	194,904	153,745	261,227	49,116	15,110	794,715	19,028,149	10,663,558	5,774,386	1,763,248	39,139,112	
Scomber	132	122	122	122	122	122	10	10	10	10	10	10	232	
Scomber	14	249	2,117	714	681	6,328	6,628	3,287	2,228	724	229	765	23,964	
Sea bass, black	307	61	403	744	2,767	491	1,856	1,003	543	2,101	374	161	10,901	
Seabass, white	10,482	18,742	12,057	35,006	13,189	29,075	45,927	208,833	81,346	28,047	14,688	14,836	512,208	
Shark	15,975	7,446	13,185	33,188	46	66,219	30,300	20,975	16,890	14,750	12,093	18,289	280,177	
Shortnose	149	32	100	200	20	25	25	105	50	69	286	1,246	1,006	
Skate	437	513	38	20	105	105	105	105	105	105	105	18	
Smelt	18,985	1,997	18,153	3,825	1,163	111	217	1,117	5,185	3,945	43,300	97,998		
Sole, miscellaneous	22	37	165	17	86	88	88	88	35	35	35	
Sole, rock	50,376	32,900	42,703	74,939	11,072	310	211,329		
Tuna, albacore	31,176	2,241,352	12,899,413	3,332,425	1,054,220	62,937	15,336	20,630,859	
Tuna, bluefin	141,397	127,574	460	42	715,978	1,116,062	212,726	937,618	607,996	465,853	465,853	4,325,744	

TABLE 13
Monthly Landings and Shipments of Commercial Fish Into the Los Angeles Area During 1960

MARINE FISH CATCH FOR 1960												
Tuna, skipjack.....	3,447	21,695	21,695
Tuna, yellowfin.....	7,035	10,882
Yellowtail, ocean.....	115	1,063	43	40	220	150	15	16	16	16	16	1,094
Yellowtail.....	4,939	9,683	1,404	1,634	7,696	8,757	5,301	6,970	14,740	19,636	17,989	15,965
Miscellaneous fish.....	43,250	15	57	46	32	2	85	45	43,532
Cephalopods:												
Octopus.....	6,640	4,861	4,888	4,975	4,796	8,123	8,816	7,665	7,746	7,790	2,636	8,157
Lobster, spiny.....	16,123	18,624	9,191	60,812	42,963	35,059	182,742
Mollusks:												
Ahalone.....	108,255	35,735	83,685	77,910	108,373	82,917	69,400	76,175	53,212	82,581	72,230
Octopus.....	26	151	63	240
Squid.....	78,796	9,800	45,850	400	105,534	8,886	35,885
Total pounds.....	14,956,624	7,018,510	18,088,753	5,148,412	2,109,653	3,025,394	5,789,908	23,095,099	33,663,239	27,074,426	18,398,415	7,817,098
Waters north of State:												
Fish:												
Tuna, albacore.....	69,104	69,104
Total pounds.....	69,104	69,104
Waters south of State:												
Fish:												
Barnacles, California.....	4,400	910	1,245	28,830	41,000	76,455
Capitella.....	205	287	25,708	143	106	25,447
Catheilla.....	845	8,835	2,216	11,896
Grenadier, California.....	41,110	13,035	31,944	14,116	2,290	787	76,135	46,091	225,501
Hake, California.....	72	72
Mackerel, Pacific.....	150	150
Perch.....	95
Rockfish.....	15,170	11,148	19,261	1,539	755	24,715	17,697	90,276
Salmon, pink.....	10,067	1,361	4,850	7,020	2,900	22,075	905	33,130	17,345	51,480	10,951	36,127
Sebastodes, white.....	3,755	6,215	5,226	3,712	22,510	41,418
Shark.....	61	1,240	5,165	6,466
Tuna, albacore.....	94,957	140,234	117,270	332,500
Tuna, bluefin.....	1,145	1,888	1,480,072	2,219,000	1,521,054	664,214	586,214	7,237
Tuna, skipjack.....	1,183,622	2,328,980	3,012,351	1,964,814	456,164	3,790,108	6,329,074	1,923,409	2,938,533	4,873,479	2,187,926	16,065,503
Tuna, yellowfin.....	8,729,037	15,324,108	24,118,829	16,924,785	22,000,908	17,824,590	13,772,733	2,973,533	6,125,580	11,277,805	10,051,638	19,401,999
Wahoo.....	8,140	3,259	11,399
Yellowtail, ocean.....	11,210	805	195	8,915	1,877	120	2,854	3,587	2,240
Miscellaneous fish.....	78	78
Total pounds.....	9,992,789	17,689,281	27,189,307	18,920,550	22,472,146	23,113,957	23,108,887	6,393,297	9,872,266	16,798,976	12,125,702	21,466,081
												209,443,242

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TABLE 13—Cont'd.

TABLE 13—Continued
Monthly Landings and Shipments of Commercial Fish Into the Los Angeles Area During 1960

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds	
SHIPMENTS:^a														
Fish:														
Sablefish.....	15,000	105,791	16,123	11,323	64,082	40,916	167,848	63,308	5,696	490,990		
Salmon.....	61,092	45,496	4,840	8,148	59,329	69,087	5,694	281,735		
Shad.....	289	187	1,795	1,408	2,095	5,774	32,178		
Sturgeon.....	1,730	730	2,900	1,832	7,212		
Swordfish.....		
Tuna, albacore.....	3,133,537	4,027,762	5,559,317	3,451,464	2,370,268	759,500	724,887	611,550	614,731	1,831,548	2,853,796	2,878,947	38,304,111	
Tuna, bigeye.....	8,820	97,656	50,265	61,490		
Tuna, bluefin.....	99,140	97,656	50,265	196,796		
Tuna, skipjack.....	1,961,152	1,034,269	252,339	1,539,695	1,047,519	715,656	1,949,702	4,851,838	3,046,606	1,673,834	18,772,130	
Tuna, yellowfin.....	3,265,516	3,477,937	4,035,328	6,060,062	4,996,708	8,010,043	5,181,111	4,371,902	5,509,234	4,830,841	2,207,583	2,596,903	54,612,305	
Miscellaneous fish.....	10,585	1,690	14,290	20,285	9,370	60,090	36,605	18,380	10,170	3,205	184,160	
Mollusk:														
Clam, Pismo.....	192,000	107,520	78,480	8,192	49,200	525,392		
Total pounds.....	8,370,810	8,646,088	10,008,731	11,580,361	8,407,147	9,721,155	8,232,842	10,148,616	9,407,480	8,830,640	5,196,746	5,487,078	104,046,703	
Grand total.....	33,220,222	33,353,879	55,266,801	55,649,323	33,079,229	35,860,506	37,131,637	39,637,012	32,942,994	52,782,146	36,029,863	34,770,257	479,834,869	

^a For origin of shipments refer to Table 6.

TABLE 13
Monthly Landings and Shipments of Commercial Fish Into the Los Angeles Area During 1960

TABLE 14
Monthly Landings and Shipments of Commercial Fish Into the San Diego Area During 1960

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds	MARINE FISH CATCH
LANDINGS FROM California waters:														
Fish:														
Barracuda, California.....	261	—	2,683	4,619	23,588	3,284	851	529	426	21	1,112	32	37,796	
Croaker, white.....	578	40	1,776	1,861	3,043	587	269	1,130	2,304	719	613	919	13,899	
Flyingfish.....	—	—	—	—	—	113	—	47	—	—	—	—	169	
Glassfish, California.....	4,252	4,245	1,229	7,169	4,027	2,936	— ^a	2,977	2,345	1,201	9,693	4,527	47,664	
Mackerel, Pacific.....	100	155	3,073	488	—	713	383	53	2,840	6,003	7,904	15,526	37,263	
Rockfish.....	8,261	16,443	27,099	27,123	20,634	21,116	15,340	11,254	5,052	12,225	5,000	2,558	198,115	
Salmon.....	—	—	—	—	—	234	—	—	—	—	—	—	234	
Sole.....	—	—	—	—	—	—	—	—	—	—	—	—	—	
Soulpin.....	14	14	514	427	341	—	—	—	—	—	845	1,995	1,989	3,239
Sea bass, black.....	598	180	382	267	1,007	879	708	231	393	1,459	112	700	7,335	
Seabass, white.....	8,536	16,875	5,382	9,911	5,473	1,002	1,297	10,349	13,369	7,032	2,149	9,026	91,001	
Sheatfish.....	9,791	8,737	8,213	27,813	30,847	31,000	10,853	9,899	3,555	7,044	13,169	19,554	177,806	
Sheep-head.....	22	33	756	43	20	100	64	6	—	158	298	549	2,162	
Sole, miscellaneous.....	—	—	—	—	11	6	103	—	—	—	—	—	120	
Swordfish.....	—	—	—	—	—	7,732	5,261	29,926	3,786	7,909	—	—	54,614	
Tuna, albacore.....	—	—	—	—	—	52,540	925,586	169,290	—	5,701	1,131,843	6,318	2,294,078	
Tuna, mafte.....	—	—	—	—	—	—	—	7,272	—	—	—	—	2,287	
Tuna, skipjack.....	—	—	—	—	—	—	—	2,486	—	—	—	—	2,486	1910
Yellowtail, ocean.....	222	45	325	272	4,957	3,393	8	1,701	4,637	6,431	1,949	360	25,101	
Miscellaneous fish.....	878	160	325	7	313	5	—	—	—	—	—	—	—	
Total pounds.....	70,088	61,179	121,748	106,047	139,754	103,292	991,004	337,544	96,554	135,082	1,219,760	284,512	3,759,564	

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TABLE 14
Monthly Landings and Shipments of Commercial Fish Into the San Diego Area During 1960

TABLE 14—Continued
Monthly Landings and Shipments of Commercial Fish Into the San Diego Area During 1960

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM—Continued													
Waters south of State:													
Fish:													
Pompano, California.....	282	142	230	1,153	3,457	148	5,412
Bonito.....	767	3,389	259	4,415	
Halibut, California.....	6,246	916	735	142	856	3,939	962	3,117	682	16	20,928
Rockfish.....	4,508	8,443	1,935	3,621	197	6,060	235	3,168	28,257
Sea bass, black.....	6,068	103	401	828	4,936	5,470	3,051	7,881	28,768
Sebastodes, white.....	4,829	13	1,691	1,857	4,573	42,000	13,190	18,211	21,481	107,885
Seaperch.....	6,471	750	5,650	18,451
Sheep-head.....	137	315	452
Swordfish.....	4,611	4,611
Tuna, albacore.....	35,386	44,127	1,482,708	568,565	58,394	27,763	151	2,431,015	
Tuna, albacore, longfin.....	10,361	822,725	633,293
Tuna, skipjack.....	1,865,745	1,166,641	1,418,337	420,946	398,718	1,953,752	540,354	2,065,275	370,656	531,196	1,707,841	943,771	13,413,832
Tuna, yellowfin.....	1,212,947	1,609,250	2,196,500	919,936	2,057,556	4,093,455	1,295,530	2,889,156	986,551	605,099	1,608,808	1,238,157	20,710,818
Weakfish.....	8,479	1,039	260	108	232	772
Whitefish, ocean.....	83	1,834	1,223	16,924	5,391	5,723	3,694	55,732
Yellowtail, ocean.....	7,674	1,223	955	9,569	19	117
Miscellaneous fish.....	19	4,818
Total pounds.....	3,078,692	2,861,098	3,626,451	1,373,823	2,471,184	6,082,593	2,300,463	6,917,767	1,998,328	1,325,553	3,472,169	2,241,793	37,750,217
SHIPMENTS:													
Fish:													
Tuna, albacore.....	302,792	953,293	1,280,288	796,156	1,133,065	9,870	2,249	4,480,713
Tuna, bigeye.....	23,756	23,756
Tuna, bluefin.....	53,255	33,467
Tuna, skipjack.....	2,577,439	798,469	1,457,251	1,256,035	938,257	318,052	468,323	790,685	568,731	381,476	9,585,588
Tuna, yellowfin.....	442,150	101,809	160,098	1,095,822	1,243,594	717,128	994,444	610,098	743,591	804,773	835,722	1,517,851	9,585,466
Total pounds.....	3,322,381	1,055,202	1,440,384	2,691,447	3,835,210	1,973,163	1,966,298	938,008	1,235,670	1,505,458	1,434,453	1,901,576	23,389,250
Grand total.....	6,471,161	3,977,479	5,191,588	4,171,317	6,446,448	8,249,048	5,257,755	6,193,319	3,330,552	3,056,093	6,126,382	4,427,881	\$4,899,031

¹ For origin of shipments refer to Table 6.

TABLE 14
Monthly Landings and Shipments of Commercial Fish Into the San Diego Area During 1960

TABLE 15
Value of Landings and Shipments of Commercial Fish Into California by Area, 1960

Species	Eureka	San Francisco ¹	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
Fish:							
Anchovy	600 \$32	1,290,657 \$23,490	25,515 \$1,276	3,741,831 \$49,018	-----	-----	50,058,603 \$73,816
Barracuda, California	-----	-----	305,010 \$11,847	881,540 \$92,738	43,118 \$4,933	1,229,668 \$139,518	1,229,668
Bonito	1,435 \$144	105,336 \$1,855	1,125,549 \$33,765	18,224 \$889	18,224 \$889	1,250,544 \$36,653	1,250,544
Cabezon	2,564 \$115	496 \$24	-----	-----	-----	3,060 \$139	3,060
Cabrilla	-----	-----	11,896 \$2,096	-----	-----	11,896 \$2,096	11,896
Carp	317,005 \$15,057	1,594 \$136	-----	-----	-----	-----	318,599 \$15,193
Croaker, white	3,454 \$375	73,576 \$5,886	233 \$17	1,000,696 \$31,887	160 \$16	1,078,119 \$38,181	1,078,119
Flounder	145,424 \$7,243	100,190 \$4,999	11,917 \$1,168	1,507 \$87	-----	-----	259,038 \$13,487
Flyingfish	-----	-----	-----	70,121 \$15,848	760 \$274	70,121 \$16,122	70,121
Grouper	-----	-----	-----	225,501 \$16,544	29,028 \$5,379	254,529 \$51,023	254,529
Hake	233,588 \$3,672	67,610 \$1,007	16,470 \$194	7,410 \$148	-----	-----	322,088 \$6,021
Halfmoon	-----	-----	-----	-----	2,804 \$712	-----	2,804 \$712
Halibut, arrowtooth	975,699 \$21,173	31,980 \$1,139	-----	-----	-----	-----	1,007,679 \$22,312
Halibut, California	83 \$24	21,981 \$4,636	3,926 \$979	206,875 \$46,919	85,794 \$22,726	57,604 \$14,873	376,263 \$90,157
Halibut, Pacific	4,916 \$1,163	-----	-----	-----	-----	-----	4,916 \$1,163
Hardhead	175,432 \$39,559	-----	-----	-----	-----	-----	175,432 \$39,559
Herring, Pacific	6,730 \$168	1,354,697 \$10,265	439,245 \$36,858	-----	-----	-----	1,354,697 \$41,021
Lingcod	71,911 \$51,015	370,938 \$25,089	97,819 \$9,048	115,148 \$7,162	806 \$104	-----	1,307,073 \$93,548
Mackerel, jack	5,885 \$386	2,265,144 \$50,276	13,197,907 \$23,4923	59,476,517 \$1,296,588	-----	74,945,453 \$1,582,173	74,945,453
Mackerel, Pacific	-----	213,993 \$4,536	4,052,410 \$68,186	32,505,024 \$682,606	37,263 \$1,815	36,808,690 \$757,143	36,808,690
Opahye	-----	-----	-----	-----	1,208 \$155	-----	1,208 \$155
Perch	105,227 \$15,634	38,228 \$6,248	11,494 \$1,302	8,899 \$2,026	425 \$77	164,273 \$25,287	164,273 \$25,287
Pompano, California	-----	-----	2,299 \$1,023	354 \$71	12,776 \$2,530	-----	15,029 \$3,021
Ratfish	-----	-----	600 \$12	-----	-----	600 \$12	600 \$12
Rockfish	3,193,668 \$119,134	3,290,047 \$152,511	3,563,595 \$179,803	2,823,400 \$122,856	616,704 \$76,016	226,472 \$21,927	13,713,886 \$672,247
Sablefish	1,348,829 \$81,335	848,224 \$29,263	189,027 \$9,354	22,398 \$1,053	546 \$44	-----	2,419,024 \$121,049
Salmon	2,437,406 \$1,319,093	2,889,532 \$1,579,707	815,778 \$307,877	73,013 \$38,980	5,482 \$2,985	234 \$122	6,221,445 \$333,764
Sanddab	95,679 \$7,559	183,512 \$10,861	64,228 \$3,872	3,444 \$2,098	1,510 \$297	-----	348,373 \$22,900
Sardine	-----	3,003,143 \$64,568	15,230,734 \$124,937	39,139,112 \$692,152	159,730 \$3,546	57,533,719 \$1,185,513	57,533,719
Sargo	-----	-----	-----	-----	222 \$51	-----	222 \$51
Sculpin	-----	-----	-----	23,964 \$7,232	5,239 \$1,298	29,203 \$8,530	29,203 \$8,530
Sculpin, staghorn	316 \$63	-----	2,339 -----	203,258 -----	36,093 -----	316 -----	316 \$63
Sea bass, black	-----	-----	-----	-----	-----	-----	-----
Seabass, white	64,152 \$11,716	49,961 \$11,671	386,573 \$85,411	553,626 \$150,474	201,886 \$49,442	1,236,198 \$31,174	1,236,198 \$31,174
Shark	1,723 \$115	68,404 \$2,984	54,157 \$3,394	77,967 \$6,817	295,593 \$31,046	196,347 \$20,066	69,161 \$6,1702
Sheep-head	-----	-----	-----	879 \$45	1,246 \$90	2,615 \$204	2,615 \$339
Skate	8,352 \$4	92,161 \$987	45,415 \$549	-----	1,006 \$111	146,934 -----	146,934 \$1,651

TABLE 15
Value of Landings and Shipments of Commercial Fish Into California by Area, 1960

TABLE 15—Continued
Value of Landings and Shipments of Commercial Fish Into California by Area, 1960

Species	Eureka	San Francisco ^a	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:—Continued							
Fish:—Continued							
Smelt.....	269,758	32,568	28,975	----	97,998	----	429,299
	\$14,931	\$1,347	\$1,822	-----	\$3,118	-----	\$24,218
Sole, Dover.....	7,543,008	1,529,852	49,647	62,207	----	----	9,184,814
	\$139,003	\$76,498	\$1,807	\$3,595	-----	-----	\$520,903
Sole, English.....	1,150,685	723,309	264,517	230,872	----	----	2,375,383
	\$82,734	\$18,644	\$18,542	\$14,176	-----	-----	\$161,096
Sole, petrale.....	796,854	761,391	157,943	759,432	----	----	2,475,620
	\$89,885	\$90,301	\$18,291	\$87,259	-----	-----	\$285,736
Sole, rex.....	463,396	486,571	93,630	63,775	----	----	1,107,372
	\$27,572	\$28,269	\$4,709	\$8,513	-----	-----	\$106,063
Sole, sand.....	1,482	54	----	----	1,757	----	73,464
	\$1,444	\$5,814	-----	-----	\$177	-----	\$245
Sole, miscellaneous.....	96,899	36,410	4,695	88,276	666	120	223,066
	\$1,952	\$630	\$342	\$2,455	\$57	\$18	\$5,151
Splittail.....	----	675	----	----	----	----	675
	-----	\$236	-----	-----	-----	-----	\$236
Swordfish.....	----	----	----	54,200	211,329	59,225	324,754
	-----	-----	-----	\$24,049	\$96,029	\$25,626	\$145,704
Tuna, albacore.....	1,729,864	3,035,070	2,893,920	1,464,189	21,061,463	4,928,121	35,112,627
	\$213,119	\$400,928	\$366,659	\$193,566	\$3,235,041	\$767,301	\$5,176,622
Tuna, bluefin.....	----	----	----	----	11,305,831	646,680	11,952,511
	-----	-----	-----	-----	\$14,8181	\$78,591	\$145,559
Tuna, skipjack.....	----	----	18	----	----	----	32,889,000
	-----	-----	\$2	----	\$3,380,851	\$110,923	\$14,799,876
Tuna, yellowfin.....	----	----	----	----	168,536,036	20,770,818	189,305,854
	-----	-----	-----	-----	\$20,965,882	\$2,600,506	\$23,566,388
Turbot.....	7,194	52,968	----	2,276	----	----	62,438
	\$717	\$2,637	-----	\$181	-----	-----	\$3,535
Wahoo.....	----	----	----	----	11,399	4,518	15,917
	-----	-----	-----	-----	\$3,990	\$1,347	\$5,337
Whitebait.....	145,980	18,229	4,249	----	----	----	168,458
	\$11,548	\$3,036	\$870	-----	1,889	1,829	\$15,454
Whitefish, ocean.....	----	----	----	----	1,889	1,829	3,518
	-----	-----	-----	-----	\$121	\$1	\$3,502
Yellowtail.....	----	----	----	16,593	151,937	80,833	246,633
	-----	-----	-----	\$1,128	\$14,620	\$6,808	\$22,550
Miscellaneous fish.....	46	84	49	20,780	43,610	413	64,982
	\$3	\$13	\$1	\$438	\$5,540	\$19	\$9,044
Crustacean:							
Crab, market.....	11,274,938	3,369,108	54,680	177,422	----	----	14,876,148
	\$1,772,419	\$695,383	\$12,790	\$36,088	\$3,235,041	\$767,301	\$2,516,680
Crab, rock.....	548	----	----	43,379	74,983	1,993	120,903
	-----	-----	-----	\$1,882	\$7,498	\$52	\$9,132
Lobster, spiny.....	----	----	----	61,500	182,742	106,790	351,032
	-----	-----	-----	\$37,399	\$128,121	\$69,991	\$235,511
Prawn.....	----	----	----	147	----	----	147
	-----	-----	-----	\$74	-----	-----	\$74
Shrimp, bay.....	----	1,580	----	----	----	----	1,580
	-----	\$205	-----	-----	-----	-----	\$205
Shrimp, ocean.....	1,841,704	110,252	----	74,831	----	----	2,026,787
	\$184,723	\$11,025	-----	\$7,618	-----	-----	\$203,366
Mollusk:							
Abalone.....	----	23,825	3,017	2,858,131	910,593	470,842	4,266,408
	-----	\$3,812	\$463	\$380,904	\$73,183	\$37,983	\$496,345
Clam, gaper.....	168	----	----	320	----	----	488
	\$3	-----	-----	\$32	-----	-----	\$35
Clam, jackknife.....	----	----	----	----	----	6,988	6,988
	-----	-----	-----	-----	-----	\$2,983	\$2,983
Clam, Washington.....	1,655	----	----	----	----	----	1,655
	\$240	-----	-----	-----	-----	-----	\$240
Octopus.....	304	745	----	321	240	----	1,610
	\$6	\$35	-----	\$19	\$43	-----	\$103
Oyster, eastern.....	----	2,072	----	----	----	----	2,072
	-----	\$691	-----	-----	-----	-----	\$691
Oyster, giant Pacific.....	9,200,940	262,566	----	1,223,350	----	----	10,686,856
	\$230,024	\$33,583	-----	\$24,467	-----	-----	\$288,074
Squid.....	----	----	2,235,935	----	325,585	----	2,561,520
	-----	-----	\$64,395	-----	\$7,619	-----	\$72,011
Miscellaneous mollusk.....	15	----	105	----	----	----	120
	\$3	-----	\$11	-----	-----	-----	\$11
Total pounds.....	43,813,683	20,439,299	18,019,737	43,832,285	375,788,166	41,509,781	543,402,951
Total value.....	\$1,698,998	\$3,306,401	\$1,293,981	\$1,901,702	\$32,570,003	\$5,131,178	\$48,905,266

TABLE 15
Value of Landings and Shipments of Commercial Fish Into California by Area, 1960

TABLE 15—Continued
Value of Landings and Shipments of Commercial Fish Into California by Area, 1960

Species	Eureka	San Francisco ¹	Monterey	Santa Barbara	Los Angeles	San Diego	Total
SHIPMENTS:²							
Fish:							
Sablefish.....	---	---	---	490,990	---	490,990	
Salmon.....	---	---	---	\$105,710	---	\$105,710	
Shad.....	4,593	---	---	\$171,505	---	\$171,505	
Sturgeon.....	4,086	---	---	\$2,791	---	\$6,877	
Swordfish.....	---	---	---	5,774	---	5,774	
Tuna, albacore.....	3,040,001	28,815,634	4,480,713	36,333,548	---	---	
Tuna, bigeye.....	\$556,624	\$4,847,328	\$774,267	\$6,178,210	---	---	
Tuna, bluefin.....	997,348	61,480	23,756	85,216	---	---	
Tuna, oriental.....	\$147,408	5,894	\$2,851	\$8,745	---	---	
Tuna, skipjack.....	211,680	196,796	33,627	1,227,771	---	---	
Tuna, yellowfin.....	137,133	24,449	\$4,166	\$176,503	236,129	---	
Miscellaneous fish.....	\$17,073	\$2,076,196	\$1,012,249	\$3,105,518	2,457	\$23,583	
Clam, Pismo.....	19,433,413	54,642,365	9,265,466	63,341,244	104,046,703	23,389,250	151,260,121
Total pounds.....	\$3,167,646	\$7,119,900	\$1,288,826	\$11,576,372	\$14,436,468	\$3,082,649	\$21,433,080
GRAND TOTAL POUNDS	43,813,683	44,263,487	18,019,737	43,832,285	479,834,889	64,899,031	694,663,072
GRAND TOTAL VALUE	\$4,698,998	\$7,220,367	\$1,293,981	\$1,304,702	\$47,006,471	\$8,213,827	\$70,358,346

¹ Includes Sacramento area landings.² For origin of shipments refer to Table 6.

TABLE 15
Value of Landings and Shipments of Commercial Fish Into California by Area, 1960

TABLE 16
Value of Landings by Port,
Eureka Area, 1960

	Value	Pounds
EUREKA AREA TOTALS	\$4,698,998	43,813,683
Eureka		
Market crab.....	\$682,992	4,344,736
Salmon.....	496,470	917,859
Giant Pacific oyster.....	230,024	9,200,040
Dover sole.....	173,647	2,983,624
Albacore.....	150,336	1,220,263
Rockfish.....	28,088	760,769
English sole.....	25,957	361,011
Petrale sole.....	23,392	207,374
Ocean shrimp.....	19,201	191,437
Sablefish.....	18,774	311,339
Rex sole.....	12,746	214,219
Lingcod.....	9,186	128,652
Perch.....	7,673	51,297
Smelt.....	5,074	93,092
All other.....	16,032	318,899
Totals.....	\$1,899,592	21,305,511
Crescent City		
Market crab.....	\$807,417	5,136,242
Salmon.....	411,079	759,943
Ocean shrimp.....	114,643	1,143,003
Perch.....	5,929	40,300
Lingcod.....	5,317	74,464
All other.....	15,114	242,793
Totals.....	\$1,359,499	7,396,745
Fort Bragg		
Salmon.....	\$359,197	664,075
Market crab.....	115,656	735,725
Dover sole.....	77,521	1,331,983
Albacore.....	61,928	502,661
Ocean shrimp.....	50,879	507,264
Sablefish.....	32,641	541,304
Rockfish.....	22,916	811,374
Petrale sole.....	13,681	124,998
Lingcod.....	11,218	157,118
English sole.....	10,375	144,303
Smelt.....	8,672	154,959
Rex sole.....	5,168	86,858
All other.....	6,382	206,821
Totals.....	\$776,234	5,765,731
Fields Landing		
Dover sole.....	\$184,853	3,176,168
Market crab.....	69,617	442,858
Rockfish.....	64,696	1,738,430
Petrale sole.....	51,349	455,225
English sole.....	45,034	626,348
Sablefish.....	29,864	495,263
Lingcod.....	25,319	354,609
Arrowtooth halibut.....	17,126	789,222
Rex sole.....	9,377	157,591
All other.....	20,186	402,649
Totals.....	\$517,421	8,638,363
Trinidad		
Market crab.....	\$96,737	615,377
Salmon.....	48,237	87,932
All other.....	265	2,152
Totals.....	\$145,239	705,461
All other ports		
Salmon.....	\$1,013	1,872
Totals.....	\$1,013	1,872

TABLE 16
Value of Landings by Port, Eureka Area, 1960

TABLE 17
Value of Landings and Shipments by Port, San Francisco Area, 1960¹

	Value	Pounds
SAN FRANCISCO AREA TOTALS	\$7,220,367	44,263,467
San Francisco		
Yellowfin tuna.....	\$3,167,646	19,433,413
Allbacore.....	701,744	41,890,308
Market crab.....	553,420	1,712,308
Salmon.....	190,954	360,259
Bluefin tuna.....	147,408	997,348
Rockfish.....	109,326	2,352,907
Petrale sole.....	63,975	539,420
Dover sole.....	60,781	1,215,624
English sole.....	29,533	442,779
Sablefish.....	23,715	687,403
Oriental tuna.....	21,126	211,680
Rex sole.....	18,601	321,708
Skipjack.....	17,073	137,133
White seabass.....	14,439	62,943
Lingcod.....	12,892	187,660
Sanddab.....	7,906	133,550
All other.....	27,149	618,795
Totals.....	\$4,973,778	33,554,328
Bodega Bay		
Salmon.....	\$731,863	1,338,693
Market crab.....	225,636	1,093,199
Rockfish.....	24,647	524,954
Ocean shrimp.....	10,905	109,052
English sole.....	10,244	153,590
Petrale sole.....	7,384	62,261
Rex sole.....	7,080	121,863
Dover sole.....	6,934	138,677
All other.....	18,761	287,661
Totals.....	\$1,042,454	3,829,950
Sausalito		
Salmon.....	\$244,950	448,052
Allbacore.....	85,874	650,562
Market crab.....	22,141	107,270
All other.....	154	2,623
Totals.....	\$353,119	1,208,507
Oakland		
Allbacore.....	\$166,814	1,263,745
Salmon.....	140,004	256,089
Market crab.....	13,765	66,693
All other.....	1,191	22,606
Totals.....	\$321,774	1,609,133
Point Reyes		
Salmon.....	\$150,564	275,405
Market crab.....	45,640	221,125
Giant Pacific oyster.....	24,589	192,252
Petrale sole.....	18,925	159,570
Rockfish.....	18,193	405,537
English sole.....	8,851	132,695
Lingcod.....	5,533	124,206
Dover sole.....	7,822	156,439
All other.....	10,986	226,674
Totals.....	\$294,103	1,893,903
Princeton		
Salmon.....	\$96,123	175,824
Market crab.....	32,146	155,747
All other.....	5,833	38,323
Totals.....	\$134,102	369,894

TABLE 17
Value of Landings and Shipments by Port, San Francisco Area, 1960

TABLE 17—Continued
*Value of Landings and Shipments by Port, San Francisco Area, 1960*¹

	Value	Pounds
Clear Lake		
Hardhead.....	\$32,547	144,335
Carp.....	6,404	134,825
Totals.....	\$38,951	279,160
Tomales Bay		
Giant Pacific oyster.....	\$8,994	70,314
Pacific herring.....	8,774	1,154,500
All other.....	4,520	25,632
Totals.....	\$22,288	1,250,446
Berkeley		
Salmon.....	\$19,249	35,210
All other.....	1,658	8,530
Totals.....	\$20,907	43,740
Turlock		
Hardhead.....	\$6,860	30,422
Carp.....	6,627	139,527
Totals.....	\$13,487	169,949
All other ports		
All other.....	\$4,404	54,457
Totals.....	\$4,404	54,457

¹ Includes Sacramento area landings.

TABLE 17
Value of Landings and Shipments by Port, San Francisco Area, 1960

TABLE 18		
Value of Landings by Port, Monterey Area, 1960		
	Value	Pounds
MONTEREY AREA TOTALS.....	\$1,293,981	18,019,737
Moss Landing		
Albacore.....	\$281,769	2,223,908
Salmon.....	269,609	552,703
Pacific herring.....	25,555	334,494
Jack mackerel.....	22,780	1,031,602
Sardine.....	13,480	626,070
Market crab.....	9,478	40,522
Rockfish.....	8,227	147,914
All other.....	15,273	261,725
Totals.....	\$646,171	5,219,738
Monterey		
Rockfish.....	\$168,314	3,369,317
Albacore.....	83,709	660,688
Squid.....	64,395	2,235,935
Salmon.....	51,509	105,717
Sardine.....	50,368	2,342,694
Jack mackerel.....	27,323	1,225,874
Anchovy.....	21,114	1,160,130
English sole.....	17,055	243,300
Petrale sole.....	15,710	135,662
Lingcod.....	5,574	60,263
All other.....	29,033	615,111
Totals.....	\$534,104	12,154,691
Santa Cruz		
Salmon.....	\$76,759	157,358
Pacific herring.....	7,233	94,678
White seabass.....	6,593	28,223
All other.....	23,121	365,051
Totals.....	\$113,706	645,308

TABLE 18
Value of Landings by Port, Monterey Area, 1960

TABLE 19
Value of Landings by Port,
Santa Barbara Area, 1960

	Value	Pounds
SANTA BARBARA AREA TOTALS	\$1,904,702	43,832,285
Port Hueneme		
Sardine.....	\$364,961	13,081,044
Jack mackerel.....	234,473	13,172,636
Pacific mackerel.....	68,486	4,052,400
Ahalone.....	31,181	234,897
All other.....	11,706	99,399
Totals.....	\$710,807	30,640,376
Morro Bay		
Albacore.....	\$167,136	1,244,266
Ahalone.....	135,280	1,098,051
Rockfish.....	87,661	2,099,095
Petrale sole.....	63,977	536,808
Sardine.....	56,404	2,021,650
White seabass.....	41,505	178,135
Market crab.....	31,238	153,578
Giant Pacific oyster.....	24,467	1,223,350
Salmon.....	8,358	15,225
Ocean shrimp.....	7,618	74,831
English sole.....	7,162	116,643
Lingcod.....	6,527	100,723
All other.....	17,883	336,543
Totals.....	\$655,216	9,057,898
Santa Barbara		
Ahalone.....	\$172,875	1,305,241
California halibut.....	41,441	182,722
California barracuda.....	35,611	259,558
Rockfish.....	29,834	703,237
Spiny lobster.....	29,476	48,472
Swordfish.....	22,005	49,594
White seabass.....	15,885	68,174
Petrale sole.....	9,737	84,742
English sole.....	6,363	103,625
All other.....	12,762	308,567
Totals.....	\$375,989	3,113,932
Avila		
Salmon.....	\$30,622	57,788
Albacore.....	26,355	199,339
White seabass.....	23,633	101,430
Petrale sole.....	13,545	111,882
Ahalone.....	7,770	57,152
Market crab.....	4,850	23,844
All other.....	11,617	170,598
Totals.....	\$118,292	728,053
San Simeon		
Ahalone.....	\$17,696	131,860
Totals.....	\$17,696	131,860
Gaviota		
Ahalone.....	\$15,692	117,130
Totals.....	\$15,692	117,130
Ventura		
Spiny lobster.....	\$5,874	9,659
All other.....	3,778	23,382
Totals.....	\$9,652	33,041
All other ports		
All other.....	\$1,358	9,995
Totals.....	\$1,358	9,995

TABLE 19
Value of Landings by Port, Santa Barbara Area, 1960

TABLE 20
Value of Landings and Shipments by Port,
Los Angeles Area, 1960

	Value	Pounds
LOS ANGELES AREA TOTALS	\$47,006,471	479,834,869
Terminal Island		
Yellowfin tuna.....	\$28,047,501	222,870,672
Albacore.....	8,034,728	49,570,134
Skipjack.....	5,457,047	51,659,778
Bluefin tuna.....	1,322,758	10,445,842
Jack mackerel.....	1,041,424	47,758,792
Sardine.....	664,505	37,542,646
Pacific mackerel.....	504,225	24,010,706
Bonito.....	11,815	393,843
Bigeye tuna.....	5,894	61,460
All other.....	15,363	573,743
Totals.....	\$45,104,978	445,287,616
San Pedro		
White seabass.....	\$104,329	382,816
California barracuda.....	85,336	811,179
Bluefin tuna.....	80,062	656,785
Spiny lobster.....	64,130	91,471
Rockfish.....	59,064	479,801
Pacific mackerel.....	55,208	2,628,943
Grouper.....	45,083	218,424
Albacore.....	42,393	275,999
Swordfish.....	39,409	86,727
Yellowtail tuna.....	38,087	306,168
Anechoy.....	37,881	2,891,655
Jack mackerel.....	34,426	1,579,197
Black sea bass.....	30,990	199,166
Bonito.....	21,748	724,936
White croaker.....	18,371	564,239
Sardine.....	17,894	1,010,951
Shark.....	13,652	129,950
California halibut.....	13,079	49,375
Yellowtail.....	12,348	127,692
Flyingfish.....	10,295	45,551
Solepin.....	5,835	19,335
All other.....	13,790	298,333
Totals.....	\$843,410	13,579,723
Los Angeles		
Salmon.....	\$171,505	284,733
Sablefish.....	105,710	490,990
Pismo clam.....	12,977	525,392
All other.....	74,054	265,602
Totals.....	\$364,246	1,566,717
Wilmington		
Jack mackerel.....	\$158,672	7,278,538
Pacific mackerel.....	97,865	4,660,227
White croaker.....	12,212	397,023
Sardine.....	9,025	509,915
All other.....	4,871	350,574
Totals.....	\$282,645	13,196,277
Newport Beach		
Ahalone.....	\$73,007	908,303
Jack mackerel.....	62,336	2,559,440
Swordfish.....	50,909	112,030
Pacific mackerel.....	25,244	1,202,091
Shark.....	15,802	150,637
Spiny lobster.....	15,386	21,945
White seabass.....	14,098	51,870
California halibut.....	9,163	34,589
All other.....	13,431	142,817
Totals.....	\$279,373	5,483,812

TABLE 20
Value of Landings and Shipments by Port, Los Angeles Area, 1960

TABLE 20—Continued

Value of Landings and Shipments by Port,
Los Angeles Area, 1960

	Value	Pounds
Santa Monica		
Whitebait.....	\$27,290	100,404
Spiny lobster.....	10,140	11,463
California barracuda.....	5,273	50,128
All other.....	10,365	156,490
Totals.....	\$53,068	321,485
Long Beach		
Spiny lobster.....	\$16,352	23,323
Rockfish.....	12,968	95,549
All other.....	5,509	104,689
Totals.....	\$34,729	223,561
Redondo Beach		
Rock crab.....	\$7,127	71,273
Spiny lobster.....	5,624	8,022
All other.....	4,815	28,365
Totals.....	\$17,566	107,660
San Clemente		
Spiny lobster.....	\$11,609	20,837
All other.....	303	2,352
Totals.....	\$11,912	23,189
All other ports		
All other.....	\$11,544	44,829
Totals.....	\$11,544	44,829

TABLE 20
Value of Landings and Shipments by Port, Los Angeles Area, 1960

TABLE 21
Value of Landings and Shipments by Port,
San Diego Area, 1960

	Value	Pounds
SAN DIEGO AREA TOTALS	\$8,213,827	64,899,031
San Diego		
Yellowfin tuna.....	\$3,889,332	30,036,284
Skipjack.....	2,422,272	23,001,706
Albacore.....	1,540,896	9,404,470
Bluefin tuna.....	82,834	680,307
White seabass.....	48,539	198,198
Spiny lobster.....	46,129	70,383
Absalone.....	37,983	470,842
Swordfish.....	25,396	58,693
Shark.....	20,200	194,760
Rockfish.....	15,165	154,576
California halibut.....	14,419	55,845
Yellowtail.....	6,451	76,619
Grouper.....	5,379	29,028
All other.....	23,854	327,082
Totals.....	\$8,178,849	64,758,793
La Jolla		
Spiny lobster.....	\$15,612	23,820
All other.....	287	2,875
Totals.....	\$15,899	26,695
Oceanside		
All other.....	\$0,655	51,594
Totals.....	\$0,655	51,594
All other ports		
All other.....	\$0,424	61,949
Totals.....	\$0,424	61,949

TABLE 21
Value of Landings and Shipments by Port, San Diego Area, 1960

TABLE 22
Statewide Party Boat¹ Catch and Anglers, 1951 Through 1960

Species	Number of fish									
	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Albacore.....	75,921	187,262	23,263	20,098	78,688	68,511	41,840	6,482	39	76,075
Barracuda, California.....	269,545	336,862	170,556	292,552	154,962	87,693	577,184	782,723	1,105,585	755,408
Bonito.....	14,475	7,649	6,321	70,078	22,409	61,461	258,555	422,568	776,386	1,199,910
Dolphin, California.....	26,356	34,120	1,232	50,156	15,902	10,735	16,252	25,220	34,940	47,656
Kelp bass.....	781,869	538,075	711,395	876,697	407,343	470,362	609,071	633,671	428,426	478,656
Lingcod.....	24,052	17,389	13,011	22,940	29,113	37,649	38,012	39,801	31,206	28,232
Rockfish.....	721,808	705,761	696,480	1,149,967	1,737,707	2,058,708	1,395,151	1,561,132	1,177,979	1,015,673
Sailfish.....	11,270	86,422	12,778	12,578	12,401	12,401	12,401	12,401	12,401	12,401
Sardine, white.....	14,207	11,013	28,182	41,588	30,103	19,755	19,650	34,039	10,263	18,697
Sealipin.....	35,721	39,068	28,952	33,462	28,613	36,555	13,473	13,743	11,477	18,111
Yellowtail.....	23,721	59,263	27,702	40,872	35,468	29,198	212,686	123,384	457,350	254,969
All other.....	228,157	253,126	411,187	557,328	333,897	281,778	249,387	214,469	158,221	161,043
Total number of fish.....	2,350,844	2,306,133	2,280,158	3,274,537	3,113,883	3,262,995	3,499,585	3,950,880	4,328,575	4,099,034
Number of anglers ²	687,721	726,170	620,050	657,148	612,814	645,878	662,069	636,110	687,974	637,498

¹ Does not include barges.² Includes sand bars.³ Figures showing "Number of angler days" in previous catch bulletins have been revised to show "Number of anglers".

TABLE 22
Statewide Party Boat Catch and Anglers, 1951 Through 1960

TABLE 23
Recorded Catch of Live Bait for Saltwater Sportfishing, 1960

Species	Thousands of pounds ¹
Anehoovy.....	9,315
Croaker, white.....	4
Mackerel, unclassified.....	4
Queenfish.....	21
Sardine, adult.....	550
Sardine, juvenile.....	15
Smelt.....	2
Total pounds.....	9,911

¹ Using a conversion factor of 12.5 pounds per live bait scoop, weights are estimated from voluntary records submitted by 16 boats. The weight of a scoop of live bait varies between 10 and 15 pounds. The records represent almost all the live bait landings, however they should be regarded as minimal.

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TABLE 23
Recorded Catch of Live Bait for Saltwater Sportfishing, 1960