

# **UC San Diego**

## **Fish Bulletin**

### **Title**

Fish Bulletin No. 80. The Commercial Fish Catch of California For the Years 1948-1949 With Yield Per Area of the California Sardine Fishing Grounds 1937-1949

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**STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF FISH AND GAME BUREAU OF MARINE FISHERIES  
FISH BULLETIN NO. 80**

**The Commercial Fish Catch of California For the Years 1948–1949**

***With***

**Yield Per Area of the California Sardine Fishing Grounds 1937–1949**



By  
*the Staff of the*  
**BUREAU OF MARINE FISHERIES**  
1951

## **FORWORD**

This is the twelfth in a series of fish bulletins begun in 1929 for the purpose of presenting detailed records of the State's commercial fish catch and related statistical information compiled by the Bureau of Marine Fisheries.

The Bureau of Patrol and Law Enforcement has cooperated in collecting the original material.

November, 1950

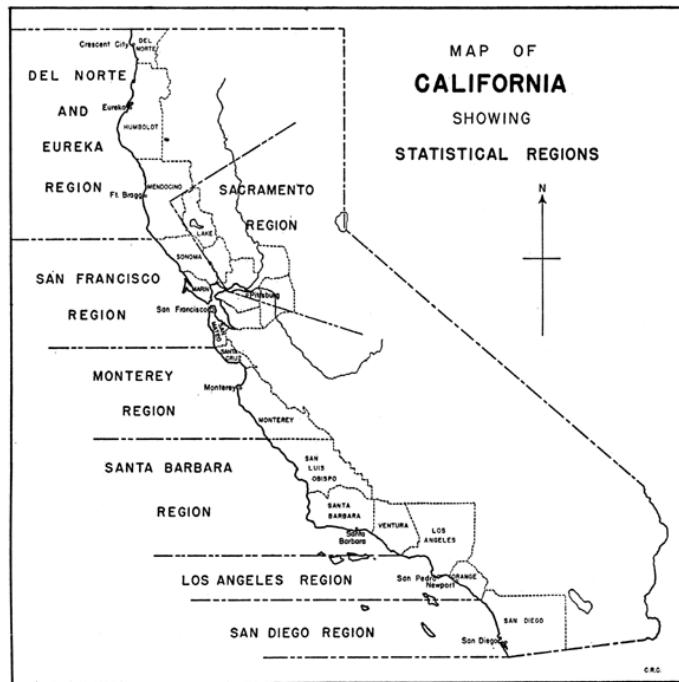


FIGURE 1

( 4 )

FIGURE 1

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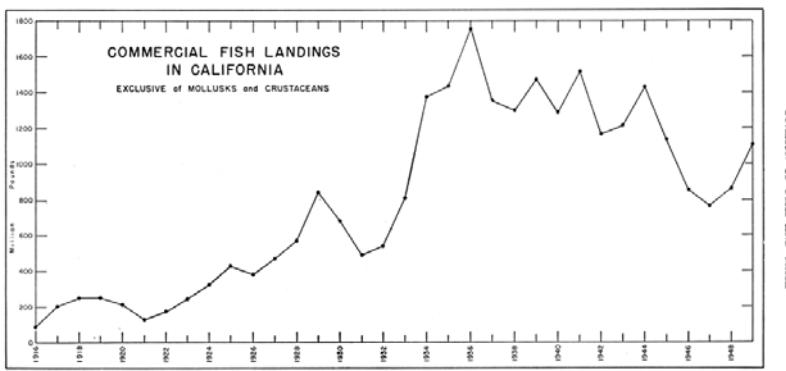


FIGURE 2. Deliveries to reduction ships (1930-1938 inclusive) and tuna importations are included. See Table 1

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TABLE I Yearly Landings in Pounds—Commercial Fish Exclusive of Mollusks and Crustaceans <sup>1</sup>			
Year	Pounds	Year	Pounds
1916.....	83,350,465	1933.....	811,002,474
1917.....	260,000,000	1934.....	1,423,000,149
1918.....	354,523,327	1935.....	1,433,616,048
1919.....	356,191,774	1936.....	1,733,612,108
1920.....	241,000,000	1937.....	1,423,000,220
1921.....	129,098,509	1938.....	1,298,034,943
1922.....	176,215,435	1939.....	1,472,000,171
1923.....	231,000,000	1940.....	1,472,000,171
1924.....	325,548,382	1941.....	1,517,833,106
1925.....	482,000,000	1942.....	1,611,000,141
1926.....	342,603,391	1943.....	1,215,163,705
1927.....	471,210,500	1944.....	1,430,203,500
1928.....	1,000,000,000	1945.....	1,423,000,220
1929.....	841,169,549	1946.....	1,833,997,768
1930.....	841,169,549	1947.....	1,833,997,768
1931.....	491,003,110	1948.....	883,000,094
1932.....	542,000,262	1949.....	1,110,074,583

<sup>1</sup> Includes sardine deliveries to reduction ships (1930-1938) and tuna imports.

## **1. INTRODUCTION**

This is a fourth report on the fishing areas for the sardine, *Sardinops caerulea*, off the California coast. Previous accounts (Calif. State Fish. Lab., 1930; Clark 1937a,b) described the areas in detail from shortly after the industry's inception (investigation records date from 1919), through the period of rapid expansion (1920's), and terminated with the peak season of production (1936–37). During the twenties the fishing grounds were extended from the localities near port to greater distances both offshore and north and south along the coast. By the end of that decade the fishermen were operating from Pt. Reyes to the Farallon Islands and southward to Pt. Sur, and by the mid-thirties the San Francisco fishermen were catching sardines as far north as Pt. Arena. In Southern California the fishing grounds extended from Pt. Conception to San Diego and around all the Channel Islands. The present study covers the 12 seasons 1937–38 through 1948–49. In this time interval the maximum boundaries of the fishing grounds remained the same. The only marked change was the development by the Monterey fishermen of the grounds between Pt. Sur and Pt. Buchon. The purpose of this report is threefold: to record where sardines were caught, to note the yield of sardines per block area, and to indicate any shift of fishing grounds during the period of study.

The earliest reports were based on fishermen interviews, giving accurate pinpoint locations of catches. This method is limited by the number of interviews that can be held during any given season, which, in practice, never encompasses the entire fleet. The full extent of the fishing grounds is thus difficult to determine. The recording of the successful fishing locations of the entire fleet during each fishing day of the season was begun in the early 1930's, when the waters off the coast were divided into numbered blocks of 10 minutes of latitude and 10 minutes of longitude. The Division of Fish and Game provides the fishermen with charts showing these blocks and requests that the block in which the catch was made be recorded on the receipt which the weighmaster makes out when a load of fish is purchased. A copy of this receipt furnishes the basic information from which the California fishery statistics are compiled. To obtain supplementary data, checkers are maintained at each port during the sardine season; they observe and make notes on the unloading of the boats, the composition of the catch, the condition of the fish, and any other pertinent information. These notes are filed with the corresponding boat receipts and the two combined represent a fairly complete history of a load of sardines.

In the present study the material was first compiled to show total tonnages taken from each specific block without regard to port of delivery. To indicate general trends and to eliminate minute details the 12 seasons were combined into four three-season groups: 1937–38 through 1939–40, 1940–41 through 1942–43, 1943–44 through 1945–46, and 1946–47 through 1948–49. The average tonnage of each block area in each of the three-season groups was then computed and plotted (Figures 3 to 6).

The present extent of the sardine fishing grounds was well established by the early 1930's (Clark, 1937a, b). To note any shift of fishing intensity within these known grounds, the tonnages for individual blocks were grouped into broader areas. (See inserts in Figure 3 and 4.) The seasonal tonnage for each of these larger regions was computed and its relative importance indicated as a percentage of the total season catch for the entire State (Table 2).

## 2. FISHING GROUNDS

The fishing grounds exploited by the sardine fishing fleet off the California coast extend from Bodega Bay southward to the United States-Mexican boundary and westward from the inshore waters to the offshore islands as far as the Farallons, Santa Rosa and San Nicolas. This major area is composed of two large distinct regions, one off the central section of the State and the other off the southern portion. The two regions are generally exploited by different fleets which operate out of the ports of San Francisco, Monterey, and San Pedro. The San Francisco and Monterey vessels fish the central coastal section which is bounded by Bodega Bay on the north, the Farallon Islands on the west, and Pt. Sur on the south. The San Pedro fleet fishes the waters about the offshore islands as well as along the coast from Pt. Conception south to the United States-Mexican boundary.

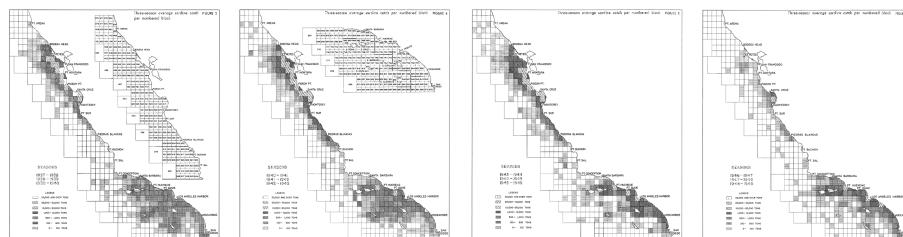
## 3. YIELD PER BLOCK

Details of the varying yields of block areas are shown by three-season groupings in Figures 3 to 6.

### 3.1. 1937–38 through 1939–40

In the period 1937 to 1940 the most productive blocks were off Pt. Montara, 464; off Pigeon Pt., 478; and the northwestern part of Monterey Bay, 509. The average season's yield of each of these blocks was over 30,000 tons. off San Francisco seven blocks yielded from 20,000 to 30,000 tons each (448, 449, 456, 457, 465, 473, and 502). These blocks form a broad band which runs southeast from Pt. Reyes toward Pt. Montara and thence along the coast into Monterey Bay. The band is surrounded by areas of fair yield, from 10,000 to 20,000 tons. Only incidental catches were made between Pt. Sur and Pt. Conception.

off Southern California there was a relatively uniform yield of 1,000 to 10,000 tons throughout the principal fishing grounds. There were four general fishing areas: (1) the northern Channel Islands, Anacapa and Santa Cruz; (2) along the mainland from Pt. Hueneme to Newport Beach; (3) the outlying islands, Santa Barbara and San Nicolas; and (4) Santa Catalina Island. of minor importance were the waters around San Clemente Island and off Oceanside and San Diego.



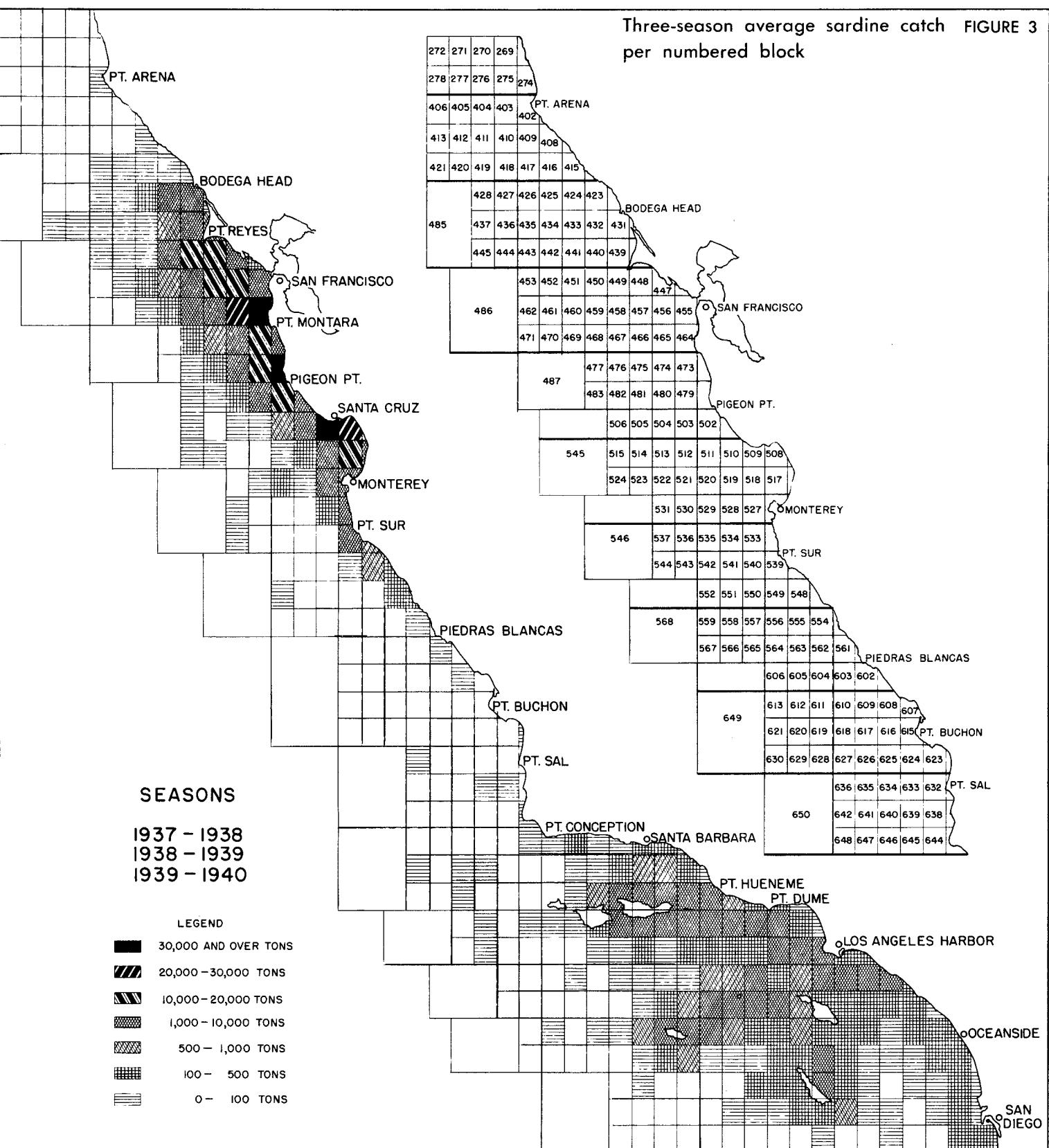
**FIGURE 3** Three-season average sardine catch per numbered block

**FIGURE 4** Three-season average sardine catch per numbered block

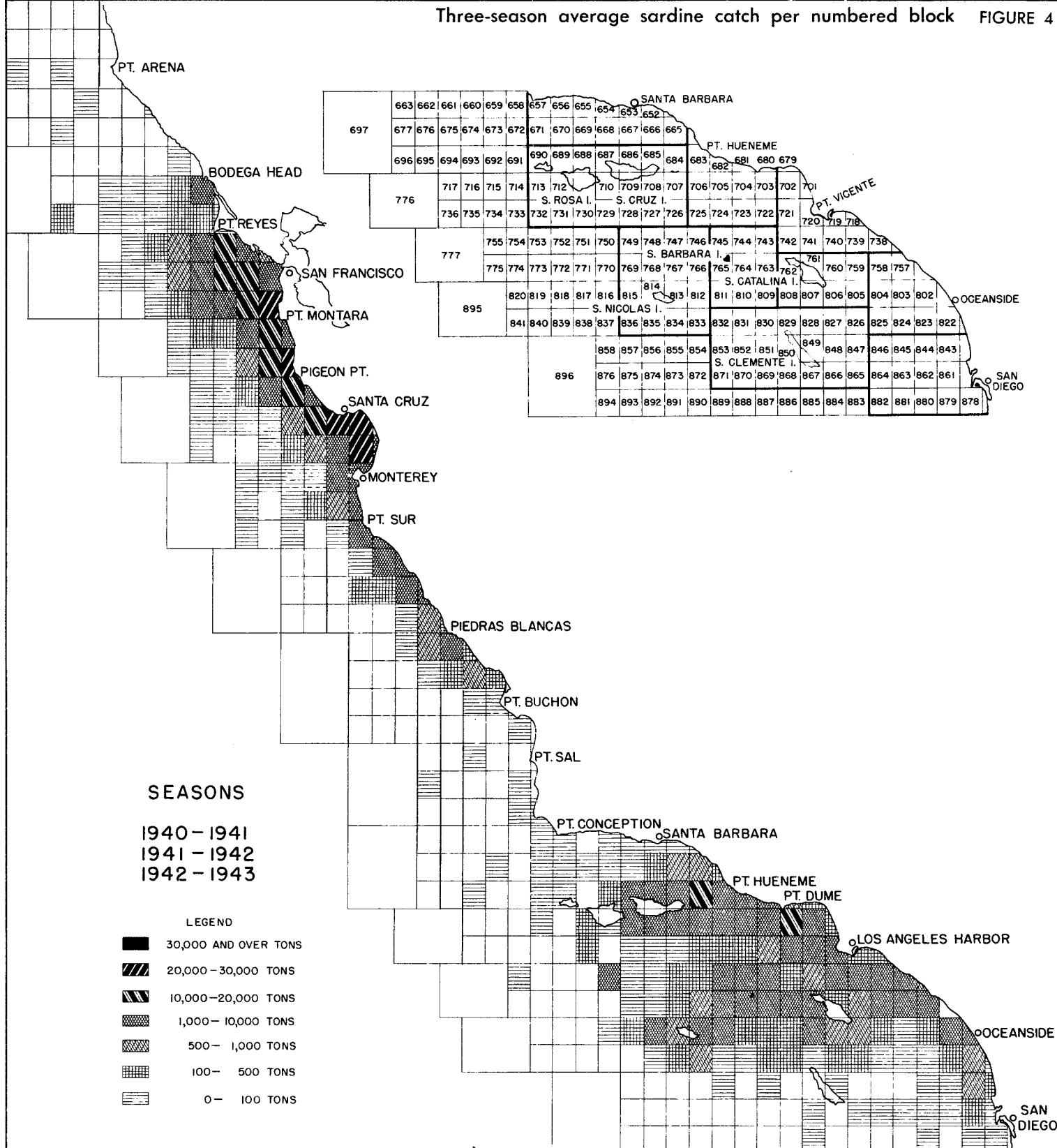
**FIGURE 5** Three-season average sardine catch per numbered block

**FIGURE 6** average sardine catch per numbered block

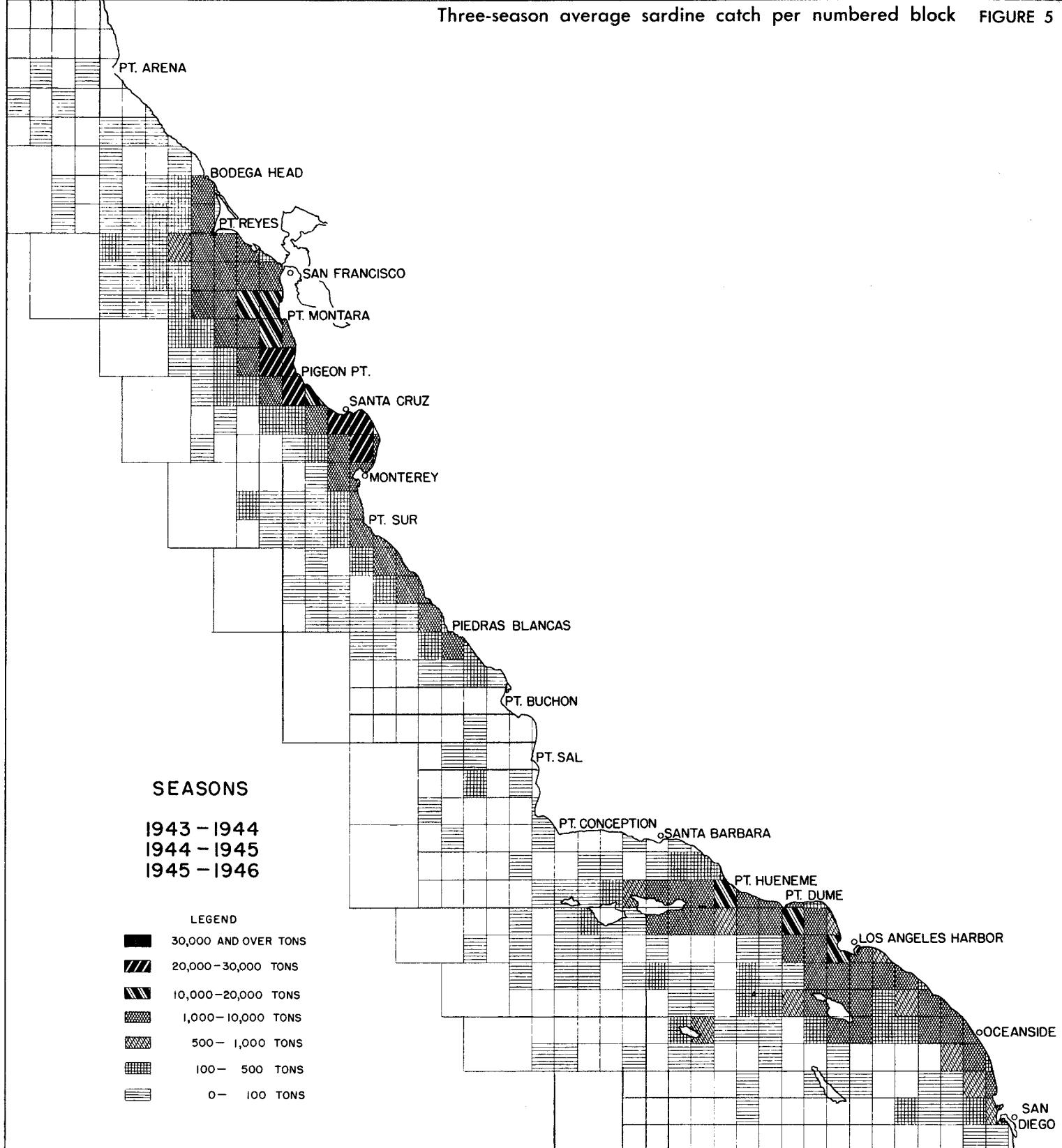
Three-season average sardine catch FIGURE 3  
per numbered block



Three-season average sardine catch per numbered block FIGURE 4



Three-season average sardine catch per numbered block FIGURE 5



Three-season average sardine catch per numbered block FIGURE 6

PT. ARENA

BODEGA HEAD

PT. REYES

o SAN FRANCISCO

PT. MONTARA

PIGEON PT.

SANTA CRUZ

o MONTEREY

PT. SUR

PIEDRAS BLANCAS

PT. BUCHON

PT. SAL

PT. CONCEPTION

o SANTA BARBARA

PT. HUENEME

PT. DUME

LOS ANGELES HARBOR

OCEANSIDE

SAN DIEGO

### SEASONS

1946 - 1947

1947 - 1948

1948 - 1949

### LEGEND

- 30,000 AND OVER TONS
- 20,000 - 30,000 TONS
- 10,000 - 20,000 TONS
- 1,000 - 10,000 TONS
- 500 - 1,000 TONS
- 100 - 500 TONS
- 0 - 100 TONS

### **3.2. 1940–41 through 1942–43**

The outstanding areas over the State during this period were again the blocks off Pt. Montara, 464; Pigeon Pt., 478; and the northern part of Monterey Bay, 508 and 509. The same broad band extending from Pt. Reyes to Pt. Montara contributed a high percentage of the total catch. There was a uniform yield throughout most of Monterey Bay. South of Monterey the yield from the coastal blocks was higher than in the previous period, 1937–40, and extended farther south to about Cape San Martin. From Piedras Blancas to Ventura the catch of sardines was negligible.

In Southern California the area about the northern Channel Islands produced a good yield with most of the blocks in the 1,000- to 10,000-ton group. Two blocks stood out with over 10,000 tons: Anacapa, 684, and Pt. Dume, 703. The fishing grounds in Santa Monica Bay off Pt. Vicente, Newport Beach, and Oceanside produced only fair catches, with most tonnages below 1,000. A few blocks were in the 1,000- to 10,000-ton class. Fishing around the outlying islands centered at Santa Barbara Island and extended eastward toward Santa Catalina. This was a slight eastward shift from the previous three-season period. The yield from the waters about San Diego was very low.

### **3.3. 1943–44 through 1945–46**

In the period 1943 to 1946, fishing was more uniformly distributed resulting in less tonnage per block and with no block yielding as much as 30,000 tons. Most productive blocks were in the same general localities as in previous periods but there was a definite shift toward the south. The catch from the block off Pt. Montara was about half (15,000 tons) that of previous seasons. The greatest landings were made in three areas: off Pescadero Pt., 478 and 479; off Pt. Ano Nuevo, 502; and most of Monterey Bay, 508, 509 and 517. South of Monterey the catches were generally greater and extended farther south to the Piedras Blancas and San Simeon regions.

In Southern California there was a trend toward greater concentrations of fishing in individual blocks. Three blocks, off Pt. Hueneme, 683, off Pt. Dume, 703, and off Pt. Vicente, 720, each yielded well over 10,000 tons. The tonnages from the waters about the northern Channel Islands were fair but the westward extension was less than usual, reaching only to the eastern end of Santa Cruz Island. The waters about Santa Catalina produced a fair yield.

### **3.4. 1946–47 through 1948–49**

The three-year period from 1946 to 1949 showed a marked change in the fishing grounds. The central area, which once contributed about two-thirds of the sardine tonnage, produced almost nothing. Block 517 in Monterey Bay not only yielded the greatest tonnage but was almost the sole producer of the region. South of Monterey the areas about Cape San Martin showed some strength but failed to attain the tonnages of past seasons.

The total catch in Southern California was below normal but assumed the leading role because of the failure in the north. Blocks with over 10,000 tons each were: off Pt. Hueneme, 683; off Pt. Vicente, 720; and off Newport Beach, 738. There were fair yields off Santa Monica Bay, around the northern Channel Islands, and southward along the coast to

**TABLE 2**  
**Sardine Catch by General Fishing Area**

General area	Block numbers	1937-38		1938-39		1939-40		1940-41		1941-42			
		Tons	Percentage	Tons	Percentage	Tons	Percentage	Tons	Percentage	Tons	Percentage		
Pt. Arena...	491-491	172	.1	110	.1	71	.1	168	.1	168	.1		
Bodega Head...	224-445	20,624	6.6	233	.1	1,202	.2	2,555	.6	2,641	.6		
San Francisco...	445-471	125,145	36.1	129,630	21.6	155,113	29.3	92,097	20.3	143,577	24.7		
Monterey...	471-491	54,118	16.0	113,499	20.0	125,499	23.0	72,130	16.0	114,930	19.5		
Pt. Sur...	607-831	32,973	9.7	115,132	21.9	125,769	23.7	82,038	19.1	129,514	22.3		
Pt. Piedras Blancas...	831-866	2,617	.6	11,580	2.3	24,216	4.6	19,123	4.2	25,031	4.3		
Pt. Buchon...	607-630	533	.0	705	.1	1,256	.2	9,911	.2	12,152	.2		
Pt. Mendocino...	630-650	136	.0	25	.0	1,256	.2	2,680	.6	359	.0		
Santa Barbara...	651-682	6,055,671	5,079	1.2	1,745	.2	2,414	.4	1,493	.1	77	.0	
Pt. Hueneme...	682-703	11,829	17,539	5.1	26,514	5.0	3,521	.7	34,093	7.5	32,647	5.6	
Santa Cruz Isd...	684-690	707,713	726,732	52,666	15.3	70,024	13.3	20,773	3.9	29,630	6.5	87,029	15.1
Pt. Vieiente...	726-731	701,704	718,711	15,637	4.6	19,655	3.7	706	.1	16,887	3.7	896	.0
Gorda Isd...	731-745	161,804	81,826	4,904	.1	307	.0	83	.0	737	.2	323	.0
San Nicolas Isd...	745-750	2,500	.0	2,500	.0	2,282	.0	2,282	.0	13,021	.0	11,117	.0
Santa Barbara Isd...	745-745	703,765	809,811	1,948	.3	3,995	.8	30,155	5.7	36,180	8.2	8,478	.4
San Nicolas Isd...	746-746	709,719	812	3,050	.9	8,663	1.6	27,786	5.2	37,095	8.2	2,215	.4
San Diego...	824-846	1,000,004	877,882	459	.1	2,473	.5	45	.0	1,247	.3	3,153	.3
San Clemente Isd...	826-832	847,833	885,871	2,433	.0	10,702	2.0	4,889	.9	2,045	.6	125	.0
<b>Totals...</b>		<b>343,204</b>	<b>100.0</b>	<b>526,131</b>	<b>99.7</b>	<b>531,427</b>	<b>99.9</b>	<b>453,657</b>	<b>100.1</b>	<b>579,273</b>	<b>99.8</b>		

**TABLE 2**  
*Sardine Catch by General Fishing Area*

TABLE 2—Continued  
Sardine Catch by General Fishing Area

General area	1943-43		1943-44		1944-45		1945-46		1946-47		1947-48		1948-49	
	Tons	Per-centage												
Pt. Area	68	.1	676	.1	24	.1	310	.1	12	.1	12	.1	12	.1
Bodega Head	1,092	.2	9,093	1.9	498	.1	2,210	.6	12	.1	12	.1	12	.1
San Francisco	121,674	24.5	104,110	22.2	70,504	15.0	55,002	14.0	2,751	1.3	12	.1	12	.1
Torrey Pines	17	.0	10,029	2.2	1,200	.3	41,200	20.6	1,200	1.0	12	.1	12	.1
Monterey	61,312	12.0	75,920	16.8	100,205	19.4	61,170	20.6	19,632	8.7	10,041	9.4	32,178	20.9
Pt. Vicente	11,410	2.3	20,143	4.6	20,888	5.4	2,840	.2	292	.1	162	.1	162	.1
Pt. Mugu	1,034	.2	14,186	3.0	11,433	3.1	2,110	.5	446	2.8	1,034	1.0	1,034	1.0
Pt. Burton	974	.1	181	.0	845	.2	124	.1	101	.1	12	.1	12	.1
Pt. San Simeon	100	.0	12	.0	12	.0	12	.0	12	.0	12	.0	12	.0
Santa Barbara	1,802	.4	62	.0	1,722	.0	988	.0	4,601	2.1	9,450	1.9	12	.1
Pt. Higuera	62,457	12.6	17,412	3.7	27,472	6.9	65,125	16.5	31,218	25.8	26,453	24.8	22,209	14.3
Santa Cruz Isl.	5	.0	1,424	.3	1,010	.2	1,020	.2	2,622	2.0	2,622	2.0	2,622	2.0
Pt. Vicente	21,691	14.4	44,533	9.5	67,233	12.3	63,033	16.2	69,621	31.9	19,091	17.9	50,691	32.7
Point Conception	2,010	.4	1,424	.3	4,000	1.0	1,000	.4	3,000	1.0	1,000	.4	1,000	.4
Santa Catalina Isl.	7,442	1.5	18,956	4.0	8,665	2.0	6,810	4.7	1,511	.7	2,658	2.0	2,439	1.5
Santa Barbara Isl.	621	.1	2,276	.5	1,035	.2	1,472	.6	337	.2	368	.2	100	.1
San Clemente Isl.	327	.1	2,135	.5	391	.1	1,237	.3	239	.6	188	.5	188	.5
San Diego	2,490	.5	3,633	.8	4,491	.8	1,970	.5	7,203	2.2	3,173	3.0	3,472	2.2
San Clemente Isl.	292	.1	122	.0	130	.0	151	.0	706	.1	344	.3	473	.3
Totals	495,910	99.9	468,496	99.7	548,303	100.1	394,308	100.0	234,697	100.0	106,424	99.7	154,911	99.8

COMMERCIAL FISH CATCH OF CALIFORNIA

TABLE 2  
Sardine Catch by General Fishing Area

Oceanside and Del Mar. Only occasional loads were taken from the waters about San Diego and the outlying islands.

### **3.5. Relationship of Catch to Bottom Topography**

Examination of the charts shows that in each general fishing area there are distinct patterns of production, which are relatively consistent from season to season. These indicate concentrations of fish in certain small areas. In relation to the mainland these are generally off headlands and in bays. In relation to the topography of the ocean floor (Shepard and Emery, 1941) the areas are found over broad shallow plains (within the 100-fathom line), over submarine canyons, and over escarpments (steep slopes or cliffs). All of the high yielding areas are located over one or more of the above bottom formations and not over regions of deep water. For example, Pt. Montara and Pigeon Pt. are over a broad plain that slopes away from the mainland, while off Pt. Dume there is a submarine canyon and off Pt. Vicente there is an escarpment. In Monterey Bay there is a canyon and shallow plain, which may be a key to its generally high and consistent productivity.

## **4. YIELD PER GENERAL AREA**

In the 12 seasons under study, as shown in Table 2, the greatest single change in fishing areas occurred during the three-season period 1946–47 to 1948–49. The disappearance of sardines north of Pt. Conception during this period caused the San Francisco and Monterey fleets to shift their operations from the central fishing grounds to those off Southern California. While the disappearance of fish was abrupt, the actual shift in fishing localities was more gradual. The San Francisco and Monterey fleets spent about half of the first season of failure, 1946–47, in scouting their usual fishing grounds. When it became evident that sardines were not to be found in the area, some of the boats moved south; others remained, extending their scouting operations north and south of the usual range. In the following seasons, 1947–48 and 1948–49, the boats scouted the central fishing grounds until the season opened in the south, at which time most of them again shifted their operation to the southern grounds.

San Francisco is the only general area which shows significant changes in tonnages throughout the period. Landings declined with fair consistency from 36 percent of the state total in 1937–38 to less than 15 percent in 1944–45 and 1945–46 and to less than 1 percent in the succeeding seasons. In no other area was there a consistent upward or downward trend.

## **5. REFERENCES**

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- Clark, Frances N. 1937a. Fishing localities for the California sardine, *Sardinops caerulea*, 1928–1936. Calif. Div. Fish and Game, Fish Bull. 48, 11 p., 5 figs.
- 1937b. Yield per area of the California sardine fishing grounds, 1935–1937. Calif. Fish and Game, vol. 23, no. 4, p. 307–309, 2 figs.
- Shepard, Francis P., and K. O. Emery 1941. Submarine topography off the California coast: canyons and tectonic interpretation. Geol. Soc. of America, special papers no. 31, 171 p., 4 charts.

## **6. COMMERCIAL FISHERMEN AND FLEET**

In the past two years there has been an increase of 2,000 licensed fishermen and 1,000 boats in California's commercial fishing fleet. The percentage of larger vessels is increasing and the boats are equipped with improved gear and modern devices which permit them to go farther afield and remain longer on the fishing grounds. This period has been marked by an extensive movement of vessels along the coast and there is no longer a concentration of local boats and local fishermen delivering to the home ports. Small ports have risen in importance due to the deliveries of large quantities of fish by the vessels to be transported by truck to distant canneries and markets.

Each year a few boats have come south from Alaska, Washington and Oregon to fish in California waters but in 1948 and 1949 there was an influx of large vessels which offered definite competition for the local operators. In 1949, 424 large vessels from the north were registered to fish in California waters and 918 northern fishermen were licensed. They invaded the otter trawl fishery delivering quantities of bottom fish at Eureka and nearby ports. They fished for salmon and crabs as far south as Monterey and seined for sardines from Monterey to Los Angeles. They fished the length of the State for albacore and some went south to foreign waters to return with tuna for the California canneries.

Fishing vessels are required to register with the Division of Fish and Game once each year. Vessels entering fishing activities for the first time are required to apply for Fish and Game boat plates. The plates carry a serial number which acts as the identifying code for the boat during the life of the vessel. The boat plates are issued free of cost to the boat owner but they remain the property of the State and if they are lost or defaced there is a charge of \$4 per pair for replacement.

The first boat plates were issued in 1931 and many of these were lost or had been painted over so that the serial number was no longer clear. During the war, rustproof metals were not available and the inferior plates issued at that time soon deteriorated. During 1949 boat plates in the series from 1 through 7,000 were replaced by the State without cost to the fishermen. The one requirement was that the fishing vessel be properly registered for that year, or in the case of a fishing party vessel, that the owner apply for his party permit.

It is important that the Fish and Game boat plates be placed in a prominent place on the superstructure of the vessel and that the serial number appear on every fish receipt issued by a market or cannery when the catch is delivered. The serial number insures the proper identification of the vessel especially in those cases where there are several boats with identical names. Through the use of the number as a code in the statistical system the boat loses its identity and merely becomes a unit in the State's records of the catch.

**TABLE 3**  
**Licensed Commercial Fishermen**

1938-1939.....	7,793	1944-1945.....	10,871
1939-1940.....	8,724	1945-1946.....	11,747
1940-1941.....	9,047	1946-1947.....	12,312
1941-1942.....	9,344	1947-1948.....	12,894
1942-1943.....	9,043	1948-1949.....	14,261
1943-1944.....	11,804	1949-1950.....	14,962

**TABLE 3**  
**Licensed Commercial Fishermen**

**TABLE 4**  
**Licensed Commercial Fishermen**

Region of residence	Number of fishermen	
	1948-1949	1949-1950
Eureka.....	929	917
Sacramento.....	665	619
San Francisco.....	1,292	1,325
Monterey.....	1,267	1,319
Santa Barbara.....	622	594
Los Angeles.....	5,832	5,961
San Diego.....	2,914	3,273
Alaska, Washington and Oregon fishermen licensed in California.....	716	918
Mexican nationals licensed in California.....	24	36
Total.....	14,261	14,962

**TABLE 4**  
**Licensed Commercial Fishermen**

TABLE 5  
Licensed Commercial Fishermen

NATIVITY	Number of fishermen	
	1948-1949	1949-1950
United States.....	10,152	10,734
Italy.....	1,386	1,401
Jugoslavia.....	772	690
Norway.....	446	523
Portugal.....	414	468
Great Britain.....	204	194
Japan.....	143	170
Sweden.....	98	99
Mexico.....	87	91
Finland.....	51	70
Spain.....	52	57
Germany.....	59	56
Greece.....	55	53
Denmark.....	59	51
Costa Rica.....	37	35
Philippine Islands.....	30	33
Russia.....	31	32
All others.....	185	205
Total licensed fishermen.....	14,261	14,962

CITIZENSHIP	Number of fisherman	
	1948-1949	1949-1950
Citizens:		
United States born.....	10,147	10,731
Foreign-born United States citizens.....	5	3
Naturalized citizens.....	3,161	3,179
Noncitizens:		
First naturalization papers.....	354	338
Aliens.....	519	654
Nativity not given.....	40	39
Citizenship not given.....	35	18
Total.....	14,261	14,962

TABLE 5  
Licensed Commercial Fishermen

TABLE 6  
Commercial Fishing Fleet

Season	Under 40 feet	40 to 84 feet	85 feet and over	Total
1939-1940.....	2,253	755	102	3,110
1940-1941.....	2,510	836	108	3,454
1941-1942.....	2,331	765	106	3,202
1942-1943.....	2,264	650	51	2,965
1943-1944.....	2,929	750	47	3,726
1944-1945.....	2,852	870	60	3,782
1945-1946.....	3,103	943	99	4,145
1946-1947.....	3,558	1,144	155	4,857
1947-1948.....	3,639	1,201	202	5,042
1948-1949.....	4,088	1,378	256	5,722
1949-1950.....	4,294	1,595	271	6,160

TABLE 6  
Commercial Fishing Fleet

**TABLE 7**  
**Commercial Fishing Fleet**  
**1948-1949**

Region of home port	Number of boats, grouped by length						Total number of boats for each region
	Up to 24 feet	25 to 39 feet	40 to 64 feet	65 to 84 feet	85 to 99 feet	100 feet and over	
Eureka.....	146	292	98	8	-----	2	546
Sacramento.....	116	267	11	-----	4	5	394
San Francisco.....	62	530	118	31	9	2	750
Monterey.....	72	226	56	41	1	2	406
Santa Barbara.....	53	136	51	1	1	2	244
Los Angeles.....	462	1,165	422	112	41	28	2,230
San Diego.....	128	371	161	43	38	104	845
Alaska, Washington and Oregon.....	2	60	154	71	13	7	307
Total number of boats.....	1,041	3,047	1,071	307	106	150	5,722

**TABLE 7**  
**Commercial Fishing Fleet 1948-1949**

**TABLE 8**  
**Commercial Fishing Fleet**  
**1949-1950**

Region of home port	Number of boats, grouped by length						Total number of boats for each region
	Up to 24 feet	25 to 39 feet	40 to 64 feet	65 to 84 feet	85 to 99 feet	100 feet and over	
Eureka.....	109	339	124	7	-----	2	581
Sacramento.....	109	247	12	-----	2	1	369
San Francisco.....	73	567	129	28	2	1	800
Monterey.....	83	246	56	43	5	1	434
Santa Barbara.....	51	128	60	5	-----	244	
Los Angeles.....	437	1,256	445	140	50	34	2,362
San Diego.....	135	429	186	37	41	118	946
Alaska, Washington and Oregon.....	85	273	50	9	7	7	424
Total number of boats.....	997	3,297	1,285	310	107	164	6,160

**TABLE 8**  
**Commercial Fishing Fleet 1949-1950**

**TABLE 9**  
**Fishing Party Vessels<sup>1</sup>**

	1948	1949
Boat owners with market fishermen's licenses.....	567	549
Boat owners with party permit only.....	241	265
Total party permit or "sport" boats.....	808	814

<sup>1</sup> The fishing party vessels are included in the preceding tables which present the record of the fleet. When not under charter for "sport" fishing they engage in commercial fishing activities.

**TABLE 9**  
**Fishing Party Vessels**

## 7. LIST OF COMMON AND SCIENTIFIC NAMES OF FISHES, CRUSTACEANS AND MOLLUSKS

<i>Common name</i>	<i>Scientific name</i>
Anchovy	<i>Anchoa compressa</i>
Deep-bodied	
Northern	<i>Engraulis mordax</i>
Slough	<i>Anchoa delicatissima</i>
Barracuda	<i>Sphyraena argentea</i>
Bonito, California	<i>Sarda lineolata</i>
Cabezone	<i>Scorpaenichthys marmoratus</i>
Cabrilula	<i>Epinephelus analogus</i>
Carp	<i>Cyprinus carpio</i>
Catfish	
Forktail	<i>Ictalurus catus</i>
Squaretail	<i>Ameiurus nebulosus</i>
Corbina, Mexican	<i>Cynoscion orthopopterus</i>
Crevally	<i>Caramx sp.</i>
Flounder, starry	<i>Platichthys stellatus</i>
Flying fish, California	<i>Cypselurus californicus</i>
Grouper	<i>Species of Mycteroperca</i>
Hake	<i>Merluccius productus</i>
Halibut, California	<i>Paralichthys californicus</i>
Halibut, Pacific	<i>Hippoglossus stenolepis</i>
Hardhead	
Greaser blackfish	<i>Orthodon microlepidotus</i>
Hardhead	<i>Mylopharodon conocephalus</i>
Herring, Pacific	<i>Clupea pallasii</i>
Kingfish	
Kingfish	<i>Genyonemus lineatus</i>
Queenfish	<i>Seriplus politus</i>
Lingcod	<i>Ophiodon elongatus</i>
Mackerel, jack	<i>Trachurus symmetricus</i>
Mackerel, Pacific	<i>Pneumatophorus diego</i>
Mullet	<i>Mugil cephalus</i>
Perch	
Blacksmith	<i>Chromis punctipinnis</i>
Halfmoon	<i>Medialuna californiensis</i>
Opaleye	<i>Girella nigricans</i>
Salt-water perch	<i>Members of family Embiotocidae</i>
Pike (Sacramento squawfish)	<i>Ptychocheilus grandis</i>
Pompano, California	<i>Palometa simillima</i>
Rock bass	
Kelp bass	<i>Paralabrax clathratus</i>
Sand bass	<i>Paralabrax nebulifer</i>
Rockfish	<i>All species of Sebastodes and</i> <i>Sebastolobus</i>
Sablefish	<i>Anoplopoma fimbria</i>
Salmon	
King	<i>Oncorhynchus tshawytscha</i>
Silver	<i>Oncorhynchus kisutch</i>
Sand dab	<i>Citharichthys sordidus</i>
	<i>Citharichthys stigmaeus</i>
Sardine, Pacific	<i>Sardinops caerulea</i>
Sculpin	<i>Scorpaena guttata</i>
Sea bass, black	<i>Stereolepis gigas</i>
Sea bass, white	<i>Cynoscion nobilis</i>
Seatrout, greenling	<i>Hexagrammos decagrammus</i>
Shad	<i>Alosa sapidissima</i>
Shark	
Basking shark	<i>Cetorhinus maximus</i>
Dogfish	<i>Squalus suckleyi</i>
Gray smoothhound	<i>Mustelus californicus</i>
Leopard shark	<i>Triakis semifasciata</i>
Soupfin	<i>Galeorhinus zyopterus</i>
Varying amounts of other species	
Sheepshead, California	<i>Pimelometopon pulchrum</i>
Sierra	<i>Scomberomorus sierra</i>
Skate	
Big	<i>Raja binoculata</i>
California	<i>Raja inornata</i>
Longnose	<i>Raja rhina</i>
Varying amounts of other species	
Smelt	
Grunion	<i>Leuresthes tenuis</i>
Jack smelt	<i>Atherinopsis californiensis</i>
Surf smelt	<i>Hypomesus pretiosus</i>
Top smelt	<i>Atherinops affinis</i>
Small amounts of other Osmerids	
Sole	
English	<i>Parophrys vetulus</i>

Dover	<i>Microstomus pacificus</i>
Petrale	<i>Eopsetta jordani</i>
Rex	<i>Glyptocephalus zachirus</i>
Varying amounts of other species	
Split-tail	<i>Pogonichthys macrolepidotus</i>
Sucker, western	<i>Catostomus occidentalis</i>
Swordfish, broadbill	<i>Xiphias gladius</i>
Tomcod	<i>Micromesistius proximus</i>
Tuna	
Albacore	<i>Thunnus germo</i>
Bluefin tuna	<i>Thunnus thynnus</i>
Skipjack	<i>Katsuwonus pelamis</i>
Yellowfin tuna	<i>Neothunnus macropterus</i>
Turbot	
Curlfin	<i>Pleuronichthys decurrens</i>
Diamond	<i>Hypsopsetta guttulata</i>
Sharptide	<i>Pleuronichthys verticalis</i>
Small amounts of other species	
Wahoo	<i>Acanthocybium solandri</i>
Whitebait	<i>Allosmerus attenuatus</i> <i>Spirinchus starksii</i> Young of several other species
Whitefish, ocean	<i>Caulolatilus princeps</i>
Yellowtail	<i>Seriola dorsalis</i>

Common name	Scientific name
Crab, market	Cancer magister
Crab, rock	Cancer antennarius
	Cancer anthonyi
	Cancer productus
Lobster, spiny	Panulirus interruptus
Shrimp	Crago franciscorum
	Crago nigricauda
	Squilla sp.
Abalone	
Pink	Haliotis corrugata
Red	Haliotis rufescens
Southern green	Haliotis fulgens
Clam	
Cockle	Paphia staminea
	Species of Chione
Gaper	Schizothaerus nuttalli
Jackknife	Tagelus californianus
Pismo	Tivela stultorum
Softshell	Mya arenaria
Washington	Saxidomus nuttalli
Mussel	Mytilus californianus
	Mytilus edulis
Octopus	Paroctopus apollion
Oyster	
Eastern	Ostrea virginica
Pacific	Ostrea gigas
Squid	Loligo opalescens

TABLE 10  
California Landings

Species	Pounds	Species	Pounds
1948		1949	
Sardine.....	362,037,087	Sardine.....	633,374,991
Yellowfin tuna.....	191,723,801	Yellowfin tuna.....	185,612,094
Jack mackerel.....	72,898,335	Skipjack.....	78,574,657
Skipjack.....	58,772,070	Jack mackerel.....	51,250,088
Pacific mackerel.....	39,385,796	Pacific mackerel.....	49,771,273
Albacore.....	37,622,760	Albacore.....	44,277,161
Sole.....	21,654,927	Sole.....	19,729,485
Squid.....	19,255,087	Crab.....	11,134,012
Crab.....	11,913,293	Yellowtail.....	7,319,494
Anchovy.....	10,835,930	Squid.....	6,859,129
Yellowtail.....	10,445,663	Salmon.....	6,847,774
Bonito.....	9,135,126	Rockfish.....	6,067,877
Salmon.....	7,769,178	Bluefin tuna.....	4,389,390
Bluefin tuna.....	6,696,987	Abalone.....	3,599,998
Rockfish.....	6,540,976	Anchovy.....	3,322,273
Abalone.....	3,228,727	Barracuda.....	2,473,901
Shark.....	2,480,555	Bonito.....	1,835,196
Barraeuda.....	2,125,737	Spiny lobster.....	1,779,911
Sablefish.....	2,068,433	Sablefish.....	1,771,223
All others.....	23,949,138	All others.....	15,328,387
Total pounds.....	900,540,206	Total pounds.....	1,135,318,314

This table includes actual landings at California ports by the commercial fishing fleet as well as shipments from other states and foreign countries by truck, rail and ocean liner to California canneries and to the fresh fish dealers.

TABLE 10  
California Landings

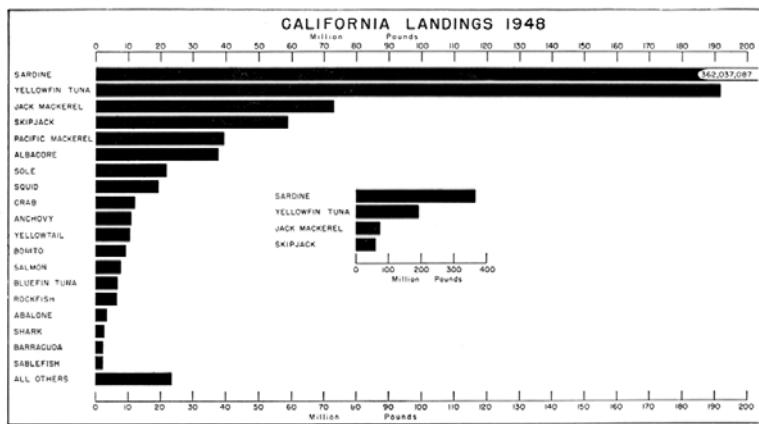


FIGURE 7

FIGURE 7

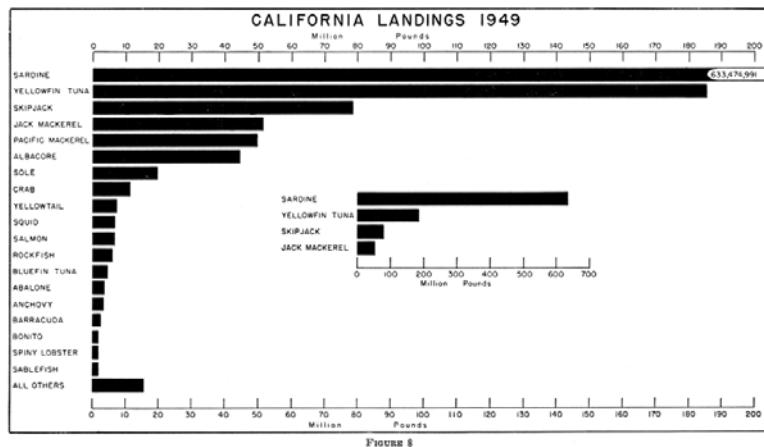


FIGURE 8

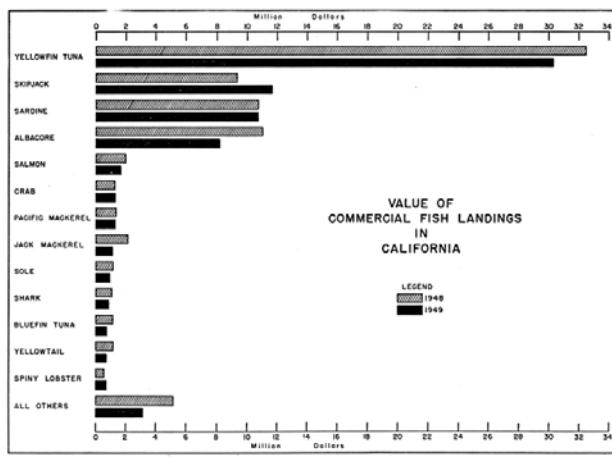


FIGURE 9

TABLE 11  
Value—Commercial Fish Landings in California

Species	1948	1949
Yellowfin tuna.....	\$32,436,867	\$30,295,142
Skipjack.....	9,228,594	11,654,637
Sardine.....	10,732,237	10,756,597
Albacore.....	11,019,190	8,191,729
Salmon.....	2,009,401	1,677,719
Crab.....	1,263,246	1,297,131
Pacific mackerel.....	1,380,584	1,285,892
Jack mackerel.....	2,136,341	1,111,123
Sole.....	1,188,725	918,930
Shark.....	1,051,306	833,392
Bluefin tuna.....	1,124,538	712,702
Yellowtail.....	1,162,721	686,000
Spiny lobster.....	549,331	685,904
All others.....	5,223,680	3,119,603
Total value.....	\$80,556,971	\$73,226,801

TABLE 11  
Value—Commercial Fish Landings in California

## 8. EXPLANATION OF TABLES

### 8.1. Shipments Into California

The tables in this series of bulletins present a record of the landings of the commercial fishing boats at California ports and of shellfish harvested along the coast. In addition there are included shipments of fish first landed outside of the State and brought in by rail, truck or cargo vessel to be canned or processed in California or to be sold fresh. The tables do not include the fish which is canned, frozen, packaged or processed outside of the State and shipped to our markets and wholesale dealers.

**TABLE 12**  
**Shipments and Importations of Fresh Fish, 1948**

Shipped from	Shipped to			Total pounds
	San Francisco region	Monterey region	Los Angeles region	
Continental United States:				
Carp-----			36,540	36,540
Tuna, bluefin-----	31,233		136,947	168,180
Tuna, skipjack-----	364			364
North of state boundary:				
Lingcod-----			3,156	3,156
Rockfish-----	33,771			33,771
South of international boundary				
Tuna, albacore-----			7,885	7,885
Tuna, skipjack-----			1,000	1,000
Japan:				
Tuna, albacore-----		277,000	804,747	1,141,747
Total pounds-----	65,368	277,000	1,050,275	1,392,643

Recapitulation:  
Tuna, albacore—1,149,632 pounds.  
Tuna, skipjack—1,364 pounds.

**TABLE 12**  
**Shipments and Importations of Fresh Fish, 1948**

**TABLE 13**  
**Shipments and Importations of Fresh Fish, 1949**

Shipped from	Shipped to			Total pounds
	San Francisco region	Los Angeles region	San Diego region	
Continental United States: Miscellaneous fish.....		11,905	-----	11,905
British Columbia: Salmon.....		296,335	-----	296,335
Oregon and Washington: Sablefish.....	27,851	-----	-----	27,851
Salmon.....	121,818	-----	131,621	121,818
Tuna, albacore.....		-----	131,621	131,621
Miscellaneous fish.....	2,400	-----	-----	2,400
South of international boundary: Barracuda.....			16,217	16,217
Bonito.....			5,655	5,655
Cabrilas.....	323	-----	-----	323
Halibut, California.....			6,157	6,157
Rock bass.....	588	27,713	-----	28,301
Rockfish.....		106,508	-----	106,508
Sablefish.....		3,347	-----	3,347
Sea bass, black.....	420	7,640	-----	8,060
Sea bass, white.....	275	2,364	-----	2,639
Shark.....		591	-----	591
Sheepshead.....		1,928	-----	1,928
Tuna, albacore.....	28,618	9,768	-----	38,386
Tuna, skipjack.....		48,454	-----	48,454
Tuna, yellowfin.....		447,899	447,899	447,899
Whitefish, ocean.....		6,660	-----	6,660
Yellowtail.....		1,773	-----	1,773
Miscellaneous fish.....	374	281	-----	655
Mollusk: Clam, Pismo.....			644,732	644,732
Peru: Tuna, skipjack.....	4,285	-----	-----	4,285
Tuna, yellowfin.....	336,918	302,891	-----	639,809
Japan: Tuna, albacore.....		114,033	-----	114,033
Total pounds.....	341,203	907,831	1,469,308	2,718,342
<b>Recapitulation:</b>				
Sablefish .....	31,198 pounds		Tuna, albacore .....	284,040 pounds
Salmon .....	418,153 pounds		Tuna, skipjack .....	52,739 pounds
			Tuna, yellowfin .....	1,087,708 pounds

**TABLE 13**  
**Shipments and Importations of Fresh Fish, 1949**

## 8.2. Statistical Regions

The boundaries of the regions of landings shown in Figure 1 and in the tables are as follows:

Eureka region: Del Norte, Humboldt and Mendocino Counties.

Sacramento region: Sacramento and San Joaquin River systems with the delta areas, including Suisun Bay and Lake County.

San Francisco region: Sonoma, Marin, San Francisco and San Mateo Counties, including San-Francisco and San Pablo Bays; Alameda and Contra Costa Counties to Carquinez Straits.

Monterey region: Monterey and Santa Cruz Counties.

Santa Barbara region: San Luis Obispo, Santa Barbara and Ventura Counties.

Los Angeles region: Los Angeles and Orange Counties.

San Diego region: San Diego and Imperial Counties.

### **8.3. Value**

The value tables represent the amount paid to the fishermen for their catch. The fish receipt does not always show the price paid per pound. Where this information is lacking, the calculated value is based on the average price paid for the month and in the area where the fish is delivered.

### **8.4. Conversion Factors**

The source from which the tables are compiled is a copy of the original fish receipt issued to the fisherman by the buyer at the time the fish is first landed. The poundage reported is assumed to be round weight unless the receipt indicates that the fish is cleaned or out of the shell. There are inconsistencies in some weights, however, due to the fact that the receipt does not always indicate whether the fish was or was not cleaned before landing, or the manner in which it was cleaned. Salmon, white sea bass and barracuda are examples of such species and for these no adjustments have been possible. Some other species are as a rule landed in a cleaned condition but again adjustments have not been made since accurate field data which would provide the basis for adjusting the weights are lacking. Catfish is always cleaned and the cleaning loss is known to be 50 percent, therefore the catfish totals have been adjusted.

Conversion factors are available for shellfish and when these species are reported in numbers rather than pounds, or as cleaned rather than round weight, the factors used are: "Crab, 2 pounds each; red abalone, 50 pounds per dozen; green and pink abalone, 35 pounds per dozen; Mexican Pismo clams, 8 pounds for each 1 pound cleaned weight; Washington clams, 7 pounds per dozen; Eastern oysters, 30 pounds per hundred; Pacific oysters, 50 pounds per hundred or 8 pounds per gallon cleaned."

**TABLE 14**  
**Origin of Commercial Fish Landings in California During 1948**

Species	California	North of the state boundary	Continental United States	South of the international boundary	Japan	Total pounds
Anchovy.....	10,835,930					10,835,930
Barracuda.....	1,100,081		1,025,056			2,125,737
Bonito.....	214,992		8,920,134			9,135,126
Cabezone.....	8,202					8,202
Carilla.....			230,725			230,725
Carp.....	1,036,212	36,540			1,072,732	
Catfish.....	274,730			105		274,730
Cobia, Mexican.....						105
Flounder.....	394,876	10,373				405,249
Flying fish.....	70,896					70,896
Grouper.....			355,315			355,315
Hake.....	4,600					4,600
Halibut, California.....	1,041,124		265,489			1,306,613
Halibut, Pacific.....	130,444					130,444
Hardhead.....	24,363					24,363
Herring, Pacific.....	8,000,377					8,000,377
Kingfish.....	643,027					643,027
Lingcod.....	1,371,485	82,749	4,441			2,058,675
Mackerel, jack.....	72,595,757					72,595,757
Mackerel, Pacific.....	39,426,706					39,385,706
Mullet.....	172,288					172,288
Perch.....	305,164					305,164
Pike, Sacramento.....	166					166
Pompano, California.....	160,553					160,553
Rock bass.....	137,359		26,930			164,289
Rockfish.....	6,009,198	471,440	60,338			6,540,976
Sablefish.....	2,012,343	55,078	1,012			2,068,433
Salmon.....	7,754,308	14,870				7,769,178
Sand dab.....	800,083	4,612				804,695
Sardine.....	362,037,087					362,037,087
Sculpin.....	154,681		389			155,076
Sea bass, black.....	16,357		171,374			188,111
Sea bass, white.....	789,691		324,399			1,114,290
SeatROUT, greenling.....	725					725
Shad.....	426,386					426,386
Shark.....	2,473,654	331	6,570			2,480,555
Sheepshead.....	87,491		12,736			100,227
Sierra.....			24,472			24,472
Skate.....	119,101					119,101
Smelt.....	781,841		255			782,096
Sole.....	20,178,519	1,476,408				21,654,927
Split-tail.....	1,442					1,442
Sucker.....	2,200					2,200
Swordfish, broadbill.....	877,883		236,125			1,113,808
Tuna, albacore.....	10,499,399	55,167	95,345	1,141,747		37,622,750
Tuna, bluefin.....	1,693,760	168,180	4,835,047			6,696,987
Tuna, skipjack.....	319,194	364	58,452,512			58,772,070
Tuna, yellowfin.....	413		191,723,388			191,723,381
Turbot.....	114,701					114,701
Wahoo.....			300			300
Whitebait.....	222,499					222,499
Whitefish, ocean.....	24,253		17,587			41,840
Yellowtail.....	246,553		10,199,110			10,445,663
Miscellaneous fish.....	202,009		5,222			207,231
Crustacean:						
Crab.....	11,912,191	1,102				11,913,293
Lobster, spiny.....	563,520					1,517,629
Prawn.....	2,771					2,771
Shrimp.....	926,707					926,707
Shrimp, ghost.....	1,339					1,339
Mollusk:						
Abalone.....	3,228,727					3,228,727
Clam.....	51,118					51,118
Clam, cockle.....	834					834
Clam, gaper.....	4,655					4,655
Clam, jackknife.....	5,247					5,247
Clam, softshell.....	1,373					1,373
Clam, Washington.....	6,602					6,602
Mussel.....	4,770					4,770
Octopus.....	119,660	1,037				120,697
Oysters, eastern.....	331,238					331,238
Oysters, Pacific.....	166,524					166,524
Squid.....	19,255,687					19,255,687
Total pounds.....	593,239,812	2,173,167	205,084	303,780,396	1,141,747	900,540,206

This table includes actual landings at California ports by the commercial fishing fleet as well as shipments from other states and foreign countries by truck, rail and ocean liner to California canneries and to the fresh fish dealers.

**TABLE 14**  
**Origin of Commercial Fish Landings in California During 1948**

TABLE 15  
Monthly Commercial Fish Landings in California During 1948 \*

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds	DIVISION OF FISH AND GAME
Anchovy.....	497,821	2,200,162	2,364,606	515,669	360,272	109,220	450,503	789,928	1,179,613	712,262	100,133	379,801	10,833,930	
Barracuda.....	73,578	124,477	352,642	166,565	225,651	477,206	212,051	111,122	61,685	145,732	62,347	28,321	2,153,737	
Bonito.....	1,824	68,491	17,719	165,194	301,119	2,412,000	1,000,000	1,130,152	604,469	102,470	144,343	9,150,155		
Cabilla.....	1,821	614	696	2,312	130	583	533	842	279	118	231	483	8,203	
Cobia.....	31,703	72,454	49,202	4,945	3,210	5,138	154	154	151	17,943	44,069	20,725	20,725	
Carp.....	26,424	64,747	71,480	81,002	153,000	1,200,000	200,000	41,783	42,275	61,496	59,920	14,669	1,262,622	
Catfish.....	22,693	6,973	16,278	61,653	3,514	508	31,284	42,196	69,694	27,490	27,490	27,490	27,490	
Cobia, Mexican.....	22,693	6,973	16,278	61,653	3,514	508	31,284	42,196	69,694	27,490	27,490	27,490	27,490	
Flounder.....	69,246	86,596	27,246	26,528	27,430	17,794	31,274	14,176	3,429	21,284	20,090	13,214	21,714	405,210
Flying fish.....	94,291	86,392	30,600	2,658	14,141	14,141	14,141	14,141	1,098	3,448	12,553	79,085	353,213	4,600
Grouper.....	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	
Hake.....	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	
Halibut, California.....	166,569	193,161	144,092	171,224	90,110	1,200	90,407	1,200	2,400	73,446	99,000	1,211,211	1,211,211	
Hakehead.....	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	
Haddock.....	3,120	11,641	1,920	1,604	12,740	26,290	13,681	1,000	2,514	1,000	5,187	14,757	130,444	
Herring, Pacific.....	6,396	78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000	78,000	24,363
Kingfish.....	19,095	20,816	65,622	39,203	61,023	58,905	152,279	38,019	31,681	62,817	47,888	24,023	643,027	
Lingcod.....	237,142	183,112	80,563	170,356	225,354	206,991	173,081	223,146	299,901	165,470	86,746	72,805,233	72,805,233	
Mackerel, California.....	11,111	4,000	4,000	3,233	3,233	1,200	1,200	1,200	5,324	2,200,000	2,200,000	1,210,034	1,210,034	
Mackerel, Pacific.....	672,112	509,851	532,449	124,014	464,035	333,623	2,356,264	5,562,158	9,989,959	13,345,958	4,413,344	3,203,711	39,283,795	
Mullet.....	33,276	26,526	26,526	26,526	26,526	26,526	26,526	26,526	26,526	26,526	26,526	26,526	26,526	
Petrel.....	20,211	21	15	103	2	2,432	20,162	27,854	13,122	11,653	12,051	15,704	305,164	
Pike, Sacramento.....	8,527	8,527	24,659	10,000	44,651	1,000	1,000	1,000	1,000	1,000	1,000	1,000	160,553	
Pompano, California.....	15,744	11,062	8,029	10,114	14,794	25,688	26,944	12,560	7,816	12,459	12,124	7,559	164,290	
Rockfish.....	808,069	453,516	455,187	399,156	740,314	909,614	969,530	272,206	3,019	321,206	292,206	64,291	6,291	
Rudderfish.....	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	
Salmon.....	29,888	84,291	68,388	363,531	1,216,862	1,381,538	1,337,118	1,348,609	1,447,293	355,590	185,712	165,227	2,065,433	
Sand dab.....	72,340	84,882	42,211	1,200	1,200	1,200	1,200	1,200	1,200	32,620	48,730	7,709,178		
Sardine.....	4,700,540	18,643,229	3,100,267	3,055,267	3,057,041	11,854,548	11,017,211	22,102,333	44,733,170	89,300,590	65,886,357	83,514,605	362,032,087	
Sculpin.....	5,869	11,301	23,243	25,669	13,374	15,571	18,181	15,613	2,608	3,183	7,724	1,075	1,075	
Sea bass, black.....	21,202	19,150	19,232	19,232	19,232	19,232	19,232	19,232	19,232	19,232	19,232	19,232	19,232	
Sea bass, white.....	37,230	21,071	20,431	35,127	106,015	199,677	196,386	110,863	154,287	65,813	70,708	110,024	1,114,290	
Seabream, greenling.....	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	1,821	
Seal.....	30,848	30,848	111,049	270,810	5,135	1,200	1,200	1,200	1,200	1,200	1,200	1,200	426,395	
Shark.....	237,267	62,782	379,383	161,341	312,313	155,943	89,749	51,452	41,021	184,256	213,252	648,256	2,480,535	
Shorthead.....	28,046	28,267	5,038	3,247	5,038	5,038	1,071	1,071	1,071	1,448	8,271	18,156	2,277	
Seppia.....	617	1,013	4,606	559	559	5,639	1,112	2,770	1,007	1,007	1,007	1,007	1,007	

	8,917	6,306	10,667	7,571	6,358	16,179	13,968	11,540	6,807	11,616	10,852	8,380	119,101	
Scad.....	27,620	4,261	22,618	1,620	5,036	27,620	4,261	4,770	1,620	22,618	35,220	7,009	73,009	
Sch.....	1,561	1,066,528	828,618	1,258,344	2,847,772	1,273,626	2,286,074	3,093,333	2,171,149	1,865,319	1,204,590	21,854,027	75	1,412
Sole.....	261	139	—	—	—	—	—	—	53	932	—	—	—	300
Swordfish, broadbill.....	2,200	—	—	—	—	—	—	—	—	—	—	—	—	—
Tuna, albacore.....	1,000,632	1,000,632	1,000,632	1,000,632	1,000,632	1,000,632	1,000,632	1,000,632	1,000,632	1,000,632	1,000,632	1,000,632	1,000,632	1,000,632
Tuna, bluefin.....	1,232,784	2,154,211	582,560	880,357	1,811,918	3,038,216	5,614,648	15,648,159	12,551,464	6,517,187	2,657,572	4,921,667	58,772,050	19,171,201
Tuna, skipjack.....	3,000	8,000	11,100	21,173	44,464	21,909,600	10,868,000	11,174,000	10,868,000	10,868,000	9,000,000	28,900,000	124,791	114,791
Turbot.....	14,463	30,071	4,690	1,614	6,088	7,692	8,452	8,132	8,132	12,017	12,724	8,093	12,098	300
Wahoo.....	114	300	—	—	—	—	—	—	—	—	—	—	—	—
Whiting.....	14,163	42,463	41,652	33,881	30,465	41,585	6,612	2,411	—	—	—	—	—	21,609
Whitefish, ocean.....	14,750	10,505	3,859	3,009	309	1,282	312	800	92	997	1,109	4,633	41,810	10,445,663
Yellowtail.....	246,216	280,179	130,000	206,437	129,649	1,321,430	3,186,778	1,968,217	1,628,504	294,146	361,357	324,148	35,565	597,531
All others.....	4,963	8,209	8,555	30,050	37,008	23,571	14,268	21,227	7,517	6,092	8,154	35,565	—	—
<b>Crustaceans:</b>														
Crab.....	660,149	1,215,666	1,486,740	1,656,718	1,365,206	436,749	362,357	94,453	1,305	1,477	2,681,233	1,607,774	11,913,293	—
Lobster, spiny.....	346,837	396,875	119,470	—	—	—	—	—	—	—	190,925	232,118	231,401	1,517,629
Prawns.....	49,459	54,547	—	—	—	—	—	—	—	—	45	55	55	775
Shrimp.....	67,731	47,056	54,854	66,627	54,949	83,013	127,294	202	169	80,853	49,138	89,914	41,737	926,202
Shrimp, ghost.....	12	54	109	235	326	134	134	38	38	—	—	—	—	1,239
<b>Mollusks:</b>														
Alaia.....	300,978	—	63,155	250,377	354,727	335,905	454,473	414,758	338,491	255,735	223,600	229,878	3,228,217	—
Ches.....	1,580	2,760	3,361	5,610	7,356	5,028	8,068	6,542	5,755	2,882	1,560	875	51,118	—
Ches, rockie.....	47	—	—	—	—	—	—	—	—	299	—	13	13	334
Ches, bay.....	30	—	130	80	180	53	360	53	53	53	53	900	—	690
Ches, jackknife.....	173	215	450	911	516	100	100	143	942	620	888	189	3,217	—
Ches, long.....	1,090	—	—	—	—	—	—	—	—	200	10	330	1,272	—
Ches, Washington.....	572	1,425	1,359	1,803	117	—	—	—	—	330	220	225	567	6,602
Okina.....	35	—	—	—	—	—	—	—	—	350	280	300	4,770	—
Oyster.....	15,168	14,403	14,351	14,922	7,735	8,166	6,227	7,735	8,573	1,310	3,730	9,811	1,587,967	—
Oyster, eastern.....	20,592	17,881	18,284	16,124	85,734	13,677	11,118	15,559	69,963	19,046	9,500	5,900	311,338	—
Oyster, Pacific.....	1,500	4,510	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210
Squid.....	1,330,192	2,450,926	639,749	3,829,749	4,382,247	5,330,490	668,125	256,558	131,366	13	—	129,442	19,255,687	—
Total pounds.....	42,690,542	54,308,735	28,020,042	35,925,738	43,769,041	52,751,791	62,523,943	56,405,504	119,739,206	133,919,835	91,377,124	139,128,615	900,540,206	—

\* This table includes actual landings at California ports by the commercial fishing fleet as well as shipments from other states and foreign countries by truck, rail and ocean liner to California cannerys and to the fresh fish dealers.

#### COMMERCIAL FISH CATCH OF CALIFORNIA

*TABLE 15—Cont'd.*

TABLE 16  
Commercial Fish Landings in the Eureka Region During 1948

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds	Division of Fish and Game	
<b>Fishing boat landings from California waters:</b>															
Anchovy.....	340	135	81	188	13	1,200	610	640	.....	11,165	.....	.....	13,415	Division of Fish and Game	
Cod.....	28,187	2,962	11,870	15,434	13,229	10,334	12,544	13,189	12,250	8,302	160	212	126,978	Division of Fish and Game	
Flounder.....	4	209	196	1,218	25,877	10,508	3,163	1,479	1,381	117	93	55,328	Division of Fish and Game		
Hake, Pacific.....	15,587	21,340	.....	.....	.....	.....	.....	.....	.....	.....	.....	59,333	Division of Fish and Game		
Herring.....	191,159	147,051	76,137	182,907	186,125	176,168	149,534	172,475	172,414	114,777	24,684	35,544	1,888,975	Division of Fish and Game	
Petrale.....	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	Division of Fish and Game	
Rockfish.....	533,050	201,348	382,625	138,533	354,741	691,313	291,448	362,738	167,626	197,198	48,228	141,157	3,514,671	Division of Fish and Game	
Sablefish.....	62,770	17,228	37,434	127,158	228,002	185,456	193,178	234,123	118,399	212,073	146,152	117,927	1,698,024	Division of Fish and Game	
Schulpin.....	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	Division of Fish and Game	
Sand dab.....	27,167	28,292	27,408	20,202	32,741	33,215	21,436	41,116	18,735	18,053	3,932	3,835	276,822	Division of Fish and Game	
Swordfish.....	.....	.....	.....	.....	.....	1,200	4,000	1,500	.....	.....	.....	.....	7,200	Division of Fish and Game	
Sea bass, white.....	21	15	500	31	.....	17	116	103	.....	.....	.....	.....	603	Division of Fish and Game	
Shark.....	129,823	2,067	693	421	164	117	69	576	3,120	4,532	32,009	470,922	643,613	Division of Fish and Game	
Salmon.....	550	550	550	550	550	550	550	550	550	550	550	550	550	550	Division of Fish and Game
Smelt.....	1,190	496	1,900	9,638	1,726	7,854	4,000	2,838	2,838	2,838	2,838	2,838	29,112	Division of Fish and Game	
Seabass.....	742,731	470,811	403,716	868,794	1,918,673	1,977,632	1,818,520	2,019,928	1,812,142	1,241,194	792,242	627	638,671	14,714,556	Division of Fish and Game
Tuna.....	1,210	2,200	898	288	2,682	1,105	1,042	1,862	2,416	948	160	14,999	71,456	Division of Fish and Game	
Turbot.....	3,200	2,200	34,650	30,600	25,744	2,827	1,151	1,151	1,151	1,151	1,151	1,151	1,151	164,691	Division of Fish and Game
Whiting.....	806	363	788	1,514	2,133	2,811	1,283	13,920	3,725	3,127	2,581	1,358	33,339	Division of Fish and Game	
Miscellaneous fish.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Division of Fish and Game	
Crustaceans:	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Division of Fish and Game	
Crab.....	231,523	817,958	1,308,429	1,378,690	1,293,029	329,502	61,053	27,531	.....	.....	23,795	213,504	5,855,012	Division of Fish and Game	
Mollusk:	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Division of Fish and Game	
Clam, Washington.....	572	1,425	1,239	1,801	117	.....	.....	.....	333	220	225	567	6,802	Division of Fish and Game	
Octopus.....	7,599	6,290	6,577	5,787	5,060	588	1,702	3,077	1,043	3,041	1,069	3,239	63,139	Division of Fish and Game	
Total pounds.....	1,976,137	1,845,090	2,423,299	2,592,938	4,745,384	4,410,781	3,339,354	4,406,453	2,820,563	1,838,617	1,099,154	1,709,314	33,605,304	Division of Fish and Game	

TABLE 16  
Commercial Fish Landings in the Eureka Region During 1948

Fishing boat landings from waters north of the state boundary:													
Pounder.....	2,225	.....	.....	2,225	2,420	2,057	.....	415	.....	17,788	3,658	.....	10,372
Lingcod.....	2,673	1,471	7,406	4,091	19,756	9,932	1,839	9,957	17,788	11,128	9,906	.....	29,583
Rockfish.....	43,134	2,652	16,080	6,535	128,645	72,905	31,680	115,004	20,414	4,929	3,329	.....	437,669
Sablefish.....	.....	.....	.....	282	1,423	22,717	1,524	.....	14,765	67	.....	.....	50,078
Salmon.....	.....	.....	.....	38	38	.....	.....	.....	.....	.....	.....	.....	14,570
Sand dab.....	350	1,225	2,455	109	146	327	.....	.....	.....	.....	.....	.....	4,612
Shark.....	308	.....	.....	.....	.....	23	.....	.....	.....	.....	.....	.....	331
Sole.....	114,582	17,155	103,702	78,369	148,225	130,758	185,687	402,283	230,898	64,749	.....	.....	1,476,408
Tuna, albacore.....	.....	.....	.....	.....	.....	.....	569	.....	.....	.....	.....	569	.....
Crustacean:													
Crab.....	1,102	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,102
Mollusk:													
Octopus.....	96	.....	48	208	220	28	.....	180	217	.....	.....	.....	1,037
Total pounds.....	165,472	22,503	129,691	92,248	300,835	230,397	220,730	563,997	205,027	81,642	.....	.....	2,081,842
Grand totals Eureka region.....	2,141,609	1,865,563	2,852,980	3,085,286	5,046,419	4,650,178	3,560,114	4,970,450	3,085,590	1,920,359	1,069,154	1,709,214	35,966,816

TABLE 16—Cont'd.

TABLE 17  
Commercial Fish Landings in the Sacramento Region During 1948

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Fishing boat landings from California waters:													
Carp.....	21,521	46,014	49,982	44,719	108,003	186,711	190,590	17,350	31,065	30,997	75,846	5,519	808,617
Catfish.....	18,166	5,562	12,166	57,852	3,514	.....	.....	.....	27,132	35,772	54,590	25,409	240,146
Flounder.....	.....	.....	25	.....	.....	.....	.....	.....	.....	1,710	4,669	473	25
Haddock.....	975	350	.....	.....	.....	.....	.....	97,000	.....	.....	.....	.....	8,177
Herring, Pacific.....	369,656	202,254	.....	.....	7	.....	.....	77,075	1,104,334	.....	32,630	48,739	668,910
Pike, Sacramento.....	21	15	.....	.....	.....	.....	.....	35	932	.....	1	1	100
Salmon.....	26,201	84,201	68,388	181,253	254,230	58,300	.....	.....	.....	.....	1,939,801	426,183	.....
Shad.....	39,392	110,886	270,770	5,135	.....	.....	.....	.....	.....	.....	75	1,202	.....
Split tail.....	160	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grand totals Sacramento region.....	440,377	338,459	169,941	394,938	637,024	250,236	190,590	191,464	1,103,463	68,479	167,744	80,512	4,093,227

TABLE 17  
Commercial Fish Landings in the Sacramento Region During 1948

TABLE 18  
Commercial Fish Landings in the San Francisco Region During 1948

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds	Division
Fishing boat landings from California waters.....													380,251	Division A and C
Ashley.....													278	
Cabonete.....													137,220	
Carp.....	18,175	18,875	41,235	29,210	11,660	10,020	2,700	1,311	8,071	11,021	11,020	11,020	137,220	Division A and C
Catfish.....	3,876	3,410	4,212	3,800	2,644	18,859	8,652	18,490	4,232	6,424	6,104	1,993	34,884	
Diamond.....	30,338	83,276	13,131	8,373	—	—	—	—	9,312	9,312	18,433	20,072	20,072	
Hake.....													3,800	
Haddock, Pacific.....	22,188	20,148	2,613	1,461	1,581	715	2,183	1,763	1,682	1,235	5,070	14,611	75,116	
Hake, California.....	1,143	1,143	1,143	1,143	1,143	1,143	1,143	1,143	1,143	1,143	1,143	1,143	1,143	1,143
Harmotho.....	2,143	11,291	1,920	—	731	—	99	—	—	—	—	—	16,198	
Herring, Pacific.....	6,152	47,740	1,920	—	—	—	—	—	—	—	—	—	5,176	
Glassy.....	39	—	—	—	—	—	—	—	—	—	—	—	—	
Lingcod.....	19,490	19,756	13,666	26,067	12,988	13,942	17,453	30,811	42,806	43,144	24,154	19,927	284,346	
Mackerel, Pacific.....	—	—	—	—	—	—	—	—	—	—	—	—	—	
Mahi-mahi.....	1,419	2,000	27,610	26,365	—	—	3,880	7,479	9,044	6,706	2,260	2,116	87,328	
Mullet.....	1,748	1,882	9,845	16,310	11,062	28,982	26,215	17,174	24,245	37,800	45,881	30,772	271,125	
Salmon.....	140	—	—	—	—	—	—	—	—	—	—	—	23,927	
Sailfish.....	6,718	112,240	270,515	311,240	50,625	12,200	1,121	1,451	8,945	7,106	1,357	1,179	677,792	
Seaduck.....	38,527	47,700	7,108	22,984	—	25,543	26,650	21,625	55,804	49,756	39,808	54,243	36,295	447,701
Sardine.....	12,800	47,700	—	—	—	13,000	13,500	—	—	—	174,000	—	279,809	
Sea trout.....	203	304	—	—	—	—	—	—	—	—	—	—	—	
Seaweed, greenling.....	—	48	—	123	40	—	—	36	277	107	—	—	408	
Shad.....	45,027	31,765	3,850	7,025	6,250	14,855	3,592	3,029	3,212	4,090	10,022	22,029	201,850	
Shark.....	7,378	3,790	4,250	3,475	4,765	15,655	12,390	9,909	4,709	7,456	8,550	5,750	57,980	
Seal.....	2,481	2,481	21,327	23,227	21,327	12,327	12,327	12,327	12,327	12,327	12,327	12,327	12,327	12,327
Sole.....	63,135	437,973	135,007	207,216	299,374	321,470	390,285	429,741	305,498	471,109	332,225	471,109	1,516,201	
Split tail.....	101	130	—	—	—	—	—	—	—	—	—	—	240	
Tuna.....	11,491	8,476	3,204	3,940	3,726	3,327	2,666	3,068	10,078	10,999	6,696	11,921	66,203	
Turbot.....	10,087	19,355	8,272	2,159	2,758	8,323	8,584	5,381	552	59	153	55,234		
Whiting.....	122	396	246	18,025	29,949	4,711	6,318	5,407	13,179	1,142	1,143	2,81	66,908	
Miscellaneous fish.....														

TABLE 18  
Commercial Fish Landings in the San Francisco Region During 1948

Croakers												
Crab.....	745,894	388,617	135,406	73,099	96,339	101,709	133,059	82,096	80,808	39,153	2,649,331	1,289,392
Shrimp.....	67,751	47,056	54,854	68,637	54,949	83,613	127,284	172,944	80,914	41,257	5,977,842	926,707
Mollusk												
Above ground.....				3,150		2,009	10,243	10,900	8,080	8,247		1,978
Clam, softshell.....	1,063											41,416
Octopus.....	7,354	6,459	4,774	5,718	2,657	1,777	2,224	3,558	3,446	1,226	1,063	10,443
Oyster, Pacific.....	200	17,200	18,924	16,811	12,721	11,727	13,224	13,209	10,908	5,915	3,219	31,725
Oyster, Pacific.....											0,240	11,571
Total pounds.....	7,883,739	1,283,777	697,268	809,419	1,353,495	1,016,720	1,346,759	1,100,221	1,407,482	944,109	3,765,348	2,025,320
Shipments and importations of fresh fish												
Brockfish.....			33,271									33,271
Tuna, bluefin.....		31,233										31,233
Tuna, skipjack.....	364											364
Total pounds.....	364	31,233	33,271									65,368
Grand total San Francisco Region.....	7,884,303	1,815,010	731,039	909,419	1,255,495	1,016,720	1,346,759	1,100,221	1,407,482	944,109	3,765,348	2,025,320
												24,095,945

<sup>1</sup> See Table 12 for origin record of shipments and importations of fresh fish.

TABLE 18—Cont'd.

TABLE 19  
Commercial Fish Landings in the Monterey Region During 1948

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds	DAVISON OF FISH AND GAME	
Fishing boat landings from California waters															
Anchovy.....	2,981,600	2,075,400	261,920	35,820	7,200	22,625	466,443	721,257	491,173	300	245,996	7,255,614	5,600	438,621	
Calamari.....	1,135	208	572	1,024	39	212	201	686	219	30	196	100	4,045	5,000	
Flounders.....	10,480	398	22	204	3,600	226	4,613	414	30	2,415	8,054	7,685	4,045	4,045	
Hake.....															
Haddock, California.....	15,222	5,732	2,218	2,824	8,037	18,635	1,000	198,313	129,000	918	5,999	7,813	4,045	4,045	
Herring.....	1,200	100	100	100	100	93,160	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Kingfish.....	7,241	6,033	16,661	14,503	21,075	36,265	39,095	2,662	13,187	26,420	16,411	8,321	213,699	1,000	
Lionfish.....	17,211	12,111	12,111	12,111	12,111	12,111	12,111	12,111	12,111	12,111	12,111	12,111	12,111	12,111	
Mackerel, California.....	1,210	16,700	2,427	154,490	197,192	10,288	4,770	15,312	6,702,123	1,400,017	100	354,294	8,897,723	1,000	1,000
Mackerel, Pacific.....	1,000														
Pacific halibut.....	1,000														
Pewit.....	1,000														
Pompano, California.....	156	3,861	14,870	6,075	41,122	1,815	31,456	426	1,760	3,566	199	150	107,462	1,000	1,000
Rockfish.....	16,210	13,940	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Sablefish.....	1,510	2,280	7,411	39,053	3,341	20,175	30,809	28,690	33,016	26,809	27,392	13,975	214,620	250,300	1,000
Salmon.....															
Seadab.....	1,082,564	408,561	44,194	39,112	2,064,653	11,918,320	10,590,430	12,945,630	35,861,840	4,126,200	7,555,452	8,653,038	95,511,621	1,000	1,000
Sea bass, black.....															
Sea bass, greenling.....	545	87	180	74	134	385	432	7,622	31,356	1,809	5,344	48,107	48,107	48,107	
Seawrout, greenling.....															
Shark.....	20,522	11,623	294,940	87,593	21,074	6,020	5,622	2,656	7,118	13,496	134,420	77,475	520,165	5,164	5,164
Smelt.....	620	99	311	200	627	260	287	501	1,420	645	1,420	1,420	12,111	12,111	12,111
Sole.....	34,400	20,200	2,589	2,256	23,074	10,344	29,200	36,200	20,300	19,200	19,200	19,200	19,200	19,200	19,200
Swordfish, broadbill.....															
Tuna, albacore.....															
Tuna, longtail.....															
Turbot.....															
Whiting.....															
Miscellaneous fish.....	2													344	

TABLE 19  
Commercial Fish Landings in the Monterey Region During 1948

Cod.....	10,062	7,026	8,462	6,292	3,342	1,478	2,056	1,389		6,966	3,349	51,931	
Prawn.....	887	542	262			120	20			45	565	2,771	
Mollusk.....													
Absolute.....	3,750	20	1,251	21	8,425	3,869	6,838	5,275	975	3,155	2,250	35,037	
Oyster, paper.....	20				40	369	129	129	595	940	760	4,565	
Menhaden.....												30	
Oceanus.....	3,617	2,609	2,229	2,988	1,897	3,663	1,361	85	352	1,369	1,475	3,135	
Squid.....	1,512,191	2,407,751	639,522	3,027,146	1,295,747	5,233,793	696,124	209,654	134,275		99,407	19,115,255	
Total pounds.....	2,903,097	6,000,026	3,263,139	4,713,799	7,587,604	17,447,212	11,739,097	14,604,025	44,251,227	7,290,067	8,215,681	9,731,173	137,854,847
Shipments and importations of from.....													
Tuna, albacore.....								277,000				277,000	
Total pounds.....								277,000				277,000	
Grand total Monterey region.....	2,903,097	6,000,026	3,263,139	4,713,799	7,587,604	17,447,212	11,739,097	14,604,025	44,251,227	7,290,067	8,215,681	9,731,173	137,854,847

\* See Table 12 for origin record of shipments and importations of fresh fish.

TABLE 19—Cont'd.

TABLE 20

Commercial Fish Landings in the Santa Barbara Region During 1948

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds	Division of Fish and Game
Fishing boat landings from California waters														
Anchoa.....	18,509	8,995	543	1,065	465	51,979	155,164			1,400	462	398	1,137	204,140
Barnacles.....											56			34,267
Bass, black.....	308	101	30	33	55	270	274	34	65					367
Cabomas.....														1,165
Diamond.....														209
Hallibut, California.....	62,827	46,492	32,153	60,030	40,267	37,904	44,729	47,619	23,900		314,663	32,301	**	35,331
Kingfish.....	197	78									195			377,745
Lamprey.....	1,200	1,200	549			439	340	155	428		513	211		9,714
Mackerel, pink.....	1,285,737	1,751,206			157,704		82	9,364	25,080	429,333	564,037	1,368,107		5,681,450
Mackerel, Pacific.....	192,533	90,554	252	552			62	27,969	65,941	109,079	17,462	53,263	9,714	978,114
Predatory fish.....	238	200	16	1,454	42		131	35	726	32	11	1,262		5,058
Rock bass.....	247	338	193	338	1,469	7,551	4,833	263	566	605	605	213		17,099
Rudderfish.....	4,848	3,948	10,023	12,313	1,742	8,258	5,011	6,161	8,474	9,818	2,406	2,406		73,114
Silverside.....					170	238	112	6,286	10,990	2,736				20,542
Sand dab.....	336	218		143		314								
Sardine.....	358,200	345,200	1,181	114,900		81	3,231,431	3,234,650	10,531,399	1,123,547	6,892,619			26,496,190
Selvina.....	334	360	203	1,228	318	147	19				118			2,778
Sea bass, black.....	30	100										100		
Sea bass, white.....	3,097	1,300	21,262	16,667	12,477	23,073	36,053	26,211	48,290	11,813	7,382	4,821		228,031
Shark.....	11,194	16,720	70,687	29,069	38,648	38,304	14,461	23,113	7,416	12,864	7,024	34,729		319,370
Skate.....	105	120	154			254	254	25	41	37	37	394		227
Skatelets.....	105			1,831							1,369			3,245
Sole.....	5													
Sole, sand.....	14,116	49,640	75,039	88,471	90,370	49,203	41,055	39,808	34,469	71,774	58,164	37,229		653,495
Swordfish, broadbill.....								9,094	35,521	70,234	45,162	354	164	166,830
Tuna, bluefin.....										134,410	120,000	3,000		357,410
Tuna, skipjack.....										9	8,662			8,671
Tuna, yellowfin.....	1,711	9,444	903	3,111	227	957		35	136	189				11,361
Whiting, ocean.....	565	947	33	10			35	45	136	13	207	449		1,784
Miscellaneous fish.....	1,312	1,233	2,003	6,292	1,870	2,194	1,485	671	902	714	998	31,229		50,933

TABLE 20  
Commercial Fish Landings in the Santa Barbara Region During 1948

Crustaceans:													
Crabs:													
Lobster, spiny.....	22,455	214	214	54	433	570	2,214	888	.....	20,756	706	1,045	6,568
Mollusks:													
Abalone.....	288,042	62	42,177	212,646	303,972	256,729	275,836	268,321	245,800	172,794	120,183	131,818	2,312,018
Oyster, Pacific.....	8,300	5,310	6,713	12,810	14,603	6,554	13,103	19,260	17,280	18,600	20,220	16,800	154,053
Squid.....			373	2,584									2,029
Grand total Santa Barbara region.....	2,887,246	2,205,607	299,703	450,803	787,370	481,032	617,670	4,045,819	4,513,001	11,504,559	1,976,983	9,128,346	38,491,619

TABLE 20—Cont'd.

TABLE 21  
Commercial Fish Landings in the Los Angeles Region During 1948

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds	DIVISION OF FISH AND GAME
<i>Fishing boat landings from California waters:</i>														
Anchovy.....	484,928	271,342	288,271	176,269	105,622	99,305	303,421	278,415	448,946	220,879	14,350	133,805	2,972,131	
Barracuda.....	2,097	13	28,904	11,489	11,489	13,000	12,717	12,717	8,495	8,495	8,495	8,495	68,283	
Bass.....	7,097	2,087	1,000	4,428	4,297	13,203	11,606	16,218	8,498	1,697	1,697	1,697	10	
Carp.....	.....	10	1,000	29,440	6,710	13,000	20,917	3,069	.....	.....	.....	.....	84,456	
Flounder.....	84	10	1,000	45	45	47	171	171	141	141	141	141	1,145	
Flying fish.....	.....	.....	2,428	17,794	31,274	14,176	3,426	1,498	1,498	1,498	1,498	1,498	70,896	
Haddock, California.....	26,651	15,017	62,487	56,751	28,107	24,170	10,170	8,495	8,495	8,495	8,495	8,495	220,219	
Kingfish.....	9,610	16,648	42,525	42,150	38,715	15,294	111,950	29,972	17,291	29,697	27,696	13,163	282,797	
Lingcod.....	9,246	1	178	159	243	1,034	103	207	207	207	207	207	2,819	
Mackerel, California.....	14,027,700	9,675,700	4,014,000	23,869	29,000	1,810,000	5,778,000	10,171,150	480,000	714,000	11,350,000	58,500,000	11,350,000	
Mackerel, Pacific.....	67,913	487,081	520,219	92,696	230,023	128,226	2,230,653	3,470,174	9,817,947	11,171,416	4,380,057	2,671,623	37,417,899	
Percy.....	22,088	21,151	20,114	12,496	9,237	2,432	7,170	2,409	1,009	3,015	5,229	11,054	111,925	
Dimpotus, California.....	8,133	1,200	3,247	2,244	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	5,400	
Rock bass.....	9,569	3,118	3,213	4,088	5,356	10,569	16,753	5,887	6,384	9,231	5,837	5,837	83,512	
Rock fish.....	54,053	40,000	34,493	41,160	41,160	12,144	1,000	3,000	3,000	30,000	30,000	30,000	411,000	
Sablefish.....	6,729	4,755	3,306	5,383	2,924	2,416	1,159	2,018	2,018	2,564	4,851	7,165	45,982	
Sand dab.....	3,299	2,489	2,942	1,822	1,850	2,248	1,177	218	218	218	218	218	19,987	
Sardine.....	3,889	18,780,000	3,889,000	2,977,000	3,667,000	1,000,000	4,777,000	5,797,000	5,100,000	73,023,000	52,986,000	291,223,000	65,982,000	291,223,000
Schulpin.....	2,538	6,248	13,462	17,430	12,313	13,218	18,173	18,209	1,729	2,829	4,858	113	130,779	
Sea bass, rock.....	3,914	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	
Sea bass, white.....	1,200	2,412	2,007	30,001	76,275	137,301	95,234	44,644	23,433	13,393	9,136	2,271	440,048	
Shark.....	11,842	9,354	8,023	29,928	50,432	63,564	55,946	20,487	22,443	21,344	17,266	11,212	322,381	
Seaperch.....	6,083	5,512	3,173	2,173	3,173	5,169	5,169	750	750	563	6,244	6,244	16,698	
Skate.....	897	2,417	4,406	3,128	616	474	651	250	370	978	632	798	15,512	
Smelt.....	23,372	18,181	22,911	14,029	2,107	10,317	7,754	9,000	8,072	10,940	9,420	12,072	149,049	
Sole.....	203	1,000	1,000	1,000	1,000	779	779	130	130	130	130	130	4,060	
Sucker.....	2,300	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,200	
Surfperch.....	.....	.....	.....	.....	.....	16,651	11,781	112,751	145,751	1,052	1,052	1,052	40,772	
Tuna, albacore.....	2,518	2,518	13,462	17,430	12,313	13,218	18,173	18,209	1,729	2,829	4,858	113	130,779	
Tuna, bluefin.....	.....	.....	.....	.....	.....	20	541,829	1,023,809	450,699	66,916	50,924	50,924	2,145,561	
Tuna, longtail.....	.....	.....	.....	.....	.....	59,384	1,096,778	227,439	.....	.....	.....	.....	1,683,600	
Turbot.....	.....	.....	.....	.....	.....	.....	.....	59,384	59,384	59,384	59,384	59,384	166,114	
Whiting, ocean.....	9,079	31	3,667	2,751	190	251	251	251	251	41	41	41	339	
Yellowtail, ocean.....	69,039	69,039	1,215	2,049	1,226	12,596	2,514	242	242	111	111	111	21,399	
Miscellaneous fish.....	1,127	1,481	5,196	9,147	3,044	13,944	2,883	995	1,737	2,559	2,145	2,041	48,589	

TABLE 21  
Commercial Fish Landings in the Los Angeles Region During 1948

## COPPER RIVER FISH CATCHES

Cephalopods:														
Ora	1,547	1,281	1,239	1,599	2,055	3,499	3,373	2,350	1,393	1,427	431	478	20,908	
Lobster, spiny	60,963	25,578	15,518							104,406	81,594	65,379	332,159	
Mollusks:														
Abalone	10,634	42	17,288	37,943	36,169	55,597	157,309	156,837	74,259	79,265	96,907	94,654	797,112	
Clams, cockle												15	323	91
Oysters	11						31	23						323
Squid								700	60	48,208	21	13	26,575	137,533
Total pounds	18,588,480	29,422,605	8,307,028	3,840,773	1,518,730	1,067,668	6,178,612	20,353,141	46,270,727	83,411,343	55,543,675	80,396,334	340,248,116	
Fishing boat landings from waters north of the international boundary:														
Herring	901	89,965	254,662	107,025	7,041	1,149	29,584	80,712	47,722	133,432	7,856	7,137	767,506	
Bonito	5,119	10,264	2,549	4,345	4,697	278,125	2,400,724	3,984,101	1,137,527	627,299	21,627	86,032	8,008,132	
Cunner	31,661	68,213	37,762	4,345	926	5,138	154			2,553	17,903	44,066	212,619	
Greenling	2,000	11,485	10,239	3,230	22,000	20,000				1,000	11,207	17,471	132,764	
Halibut, California	5,292	14,604	91	30		16			1,027	483	439	4,801	2,417	39,199
Lingcod													942	99
Rock bass	323		870					110	1,355			188	668	3,488
Rockfish	48	7,886	6,700									6,629	21,257	
Sea bass	2,000	10,000	1,790	10,476				13,310	105	6,551	104	30,097	12,000	156,545
Sea bass, white	61	14,960	4,502	4,839	848	92	81	19,388	50,921			9	60,440	156,547
Salmon	78											21	262	3,270
Sheepshead	2,373		85	651	550				8					1,459
Serrra	387	848												3,035
Sole, rockfish								7,000	1,214	6,831	5,631			5,615,561
Tuna, albacore								799,192	3,658,938	690,653	162,317	5,439		
Tuna, bluefin	265,132	434,450	302,070	36,740	82,371	1,762,711	3,653,965	139,461						47,415,567
Tuna, yellowfin	20,000	133,000	418,291	380,000	27,000	2,400,000	2,900,000	2,900,000	1,159,492	292,841	80,437	13,000	1,000	1,000
Whiting	1,657,165	1,496,761	6,160,537	10,071,550	12,517,947	7,084,416	7,456,375	2,990,551	3,500,786	2,797,180	476,880	6,118,371	62,629,119	
Yellowtail	50,958	56,741	23,298	10,427	98,903	809,609	2,795,838	1,832,099	1,500,775	112,143	105,595	89,903	7,000,000	1,000
Miscellaneous fish	20											1,008		1,118
Cephalopods:														
Lobster, spiny	14,328	9,733										11,835	16,219	52,355
Total pounds	2,310,694	2,793,880	7,118,694	10,621,335	13,613,193	9,097,012	17,975,761	17,588,071	9,845,793	5,000,279	992,613	7,669,609	104,627,261	

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TABLE 21—Cont'd.

TABLE 21—Continued  
*Commercial Fish Landings in the Los Angeles Region During 1948*

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Shipments and importations of fresh fish:													
Cans...													
Canned...													
Dried...													
Tuna...													
Tuna, bluefin...													
Tuna, skipjack...													
Total pounds...													
Total pounds...													
Grand totals, Los Angeles region...	20,996,504	32,216,485	15,425,722	14,471,108	14,931,933	10,164,680	34,165,673	38,519,443	36,951,262	90,530,543	59,583,698	88,065,943	445,927,984

<sup>a</sup> See Table 12 for origin record of shipments and importations of fresh fish.

TABLE 21  
*Commercial Fish Landings in the Los Angeles Region During 1948*

TABLE 22  
Commercial Fish Landings in the San Diego Region During 1948

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
<b>Fishing boat landings from California</b>													
Anchovy.....	2,895	200	1,145	280	25,595	202,184	208,255	27,078	710	16	340	4,368	9,767
Barracuda.....	.....	.....	.....	.....	.....	101,200	37,150	69	721	17	2,000	1,771	106
Carp.....	355	772	550	1,150	605	721	784	330	.....	.....	.....	.....	5,899
Hake, California.....	4,791	6,000	16,369	15,70	1,500	1,082	2,775	9,189	1,375	15,527	15,020	7,891	97,838
Herring, Pacific.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4,400
Kingfish.....	1,878	3,569	6,756	2,450	690	1,738	447	25	633	4,872	3,428	2,296	28,006
Lamprey.....	907	.....	1,174	744	.....	280	199	25	18	871	4,400	4,400	4,400
Mackerel, jack.....	14,700	.....	3,772	.....	.....	202,555	17,611	1,485	5,615	10,210	1,894	10,159	30,519
Mackerel, Pacific.....	944	11,816	3,910	4,033	91,060	.....	.....	.....	.....	27,088	30,736	10,159	65,312
Mullet.....	25,240	25,240	14,735	25,240	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	172,512
Percy.....	.....	.....	.....	.....	.....	.....	343	.....	.....	.....	.....	.....	342
Porgy.....	.....	.....	.....	.....	.....	.....	.....	279	.....	105	.....	.....	284
Rock bass.....	3,673	3,663	2,412	2,848	1,662	3,011	4,801	3,583	3,000	1,711	4,232	2,232	36,141
Rockfish.....	928	4,068	8,642	25,723	5,300	501	685	65	194	630	3,080	4,712	33,160
Salmon.....	.....	.....	.....	.....	.....	.....	11	.....	.....	.....	.....	.....	114
Sand dab.....	.....	56	.....	.....	.....	.....	.....	.....	.....	41	.....	.....	337
Sardine.....	1,681	9,600	10,341	17,517	29,557	1,600	130	4,147,369	2,073,138	5,004,601	.....	.....	.....
Solefish.....	2,197	4,800	9,270	6,002	584	3	18	279	380	67	.....	.....	4,415
Sea bass, black.....	559	53	41	427	1,426	552	552	380	67	.....	.....	.....	1,712
Sea bass, white.....	1	145	1,444	16,240	21,420	4,400	4,400	5,685	5,685	11,442	12,835	13,774	44,155
Shark.....	10,021	2,131	1,732	5,016	17,978	43,319	9,016	2,357	2,304	2,290	1,435	785	14,766
Sheepshead.....	5,012	8,712	629	40	40	10	10	10	10	10	10	10	1,125
Swordfish.....	513	27	19	19	19	19	19	19	19	19	19	19	19
Sole.....	119	23	262	.....	.....	3,253	5,257	3,848	2,527	2,527	2,527	32	565
Sweet fish, longbill.....	.....	.....	.....	.....	.....	65	1,418,266	1,671,310	1,412,205	130,445	6,657	.....	116,331
Tuna, albacore.....	.....	.....	.....	.....	.....	1,342	196	61	61	61	61	61	4,050,311
Tuna, bluefin.....	.....	.....	.....	.....	.....	4,000	4,000	138,720	138,720	138,720	138,720	138,720	1,489
Tuna, yellowfin.....	.....	.....	.....	.....	.....	276	137	88,330	88,330	88,330	88,330	88,330	88,743
White seabream.....	111	222	281	.....	75	111	111	111	111	111	111	111	1,100
Yellowtail, ocean.....	116	406	165	350	5	66,561	70,200	2,972	5,124	15,730	189	115	157,941
Miscellaneous fish.....	102	.....	.....	.....	411	148	294	178	54	165	135	135	2,308

COMMERCIAL FISH CATCHES IN THE SAN DIEGO REGION

TABLE 22—Continued  
Commercial Fish Landings in the San Diego Region During 1948

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds	DIVISION OF FISHERIES AND GAME
Fishing boat landings from California waters north of the international boundary:														
Crustacean:														
Crab.....	21	4,859	2,961	.....	.....	.....	.....	.....	.....	50,342	30,267	17,093	9	114,250
Lobster, spiny.....	12	84	109	235	326	134	262	169	38	.....	.....	.....	.....	1,239
Shrimp, ghost.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mollusk:														
Avalanche.....	1,559	2,709	3,670	5,618	4,152	5,167	3,980	5,725	4,219	5,492	4,269	1,428	42,944	51,118
Cuttlefish.....	1,589	3,204	5,619	7,356	5,028	8,068	6,542	5,795	2,882	1,560	875	740	7,607	7,607
Clam, cockle.....	178	415	480	341	516	100	100	181	142	200	188	39	30	5,267
Clam, petticoat.....	.....	.....	.....	.....	.....	.....	.....	.....	200	80	39	39	310	310
Mussel.....	350	200	180	120	750	550	800	800	350	250	200	100	4,756	4,756
Total pounds.....	83,513	182,740	99,578	164,874	501,274	722,871	1,600,290	1,776,102	1,908,884	2,004,272	4,279,408	2,197,537	15,220,932	25
Fishing boat landings from waters south of the international boundary:														
Barracuda.....	46,069	22,723	37,561	18,221	1,831	19,342	34,390	34,370	372	6,047	47,828	19,876	254,460	311,342
Bonito.....	27,493	34,134	7,566	5,149	5,665	485	.....	.....	310	41,430	77,780	58,741	.....	18,106
Cobia.....	141	141	11,150	2,250	2,250	2,250	2,250	2,250	2,250	2,250	2,250	2,250	2,250	105
Cordwainer, Mexican.....	105	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grouper.....	69,237	45,000	22,752	3,044	11,492	15	15	15	4,859	15,849	12,132	31,111	184,153	233,679
Hake, California.....	42,750	32,000	31,000	20,000	8,011	11,015	17,348	17,348	17,348	17,348	17,348	17,348	3,551	3,551
Lingcod.....	228	3,437	1,281	2,522	2,522	2,522	2,522	2,522	2,522	2,522	2,522	2,522	2,522	2,522
Rock bass.....	.....	1,491	13,061	1,041	3,089	78	.....	.....	39	2,962	.....	1,096	1,096	20,680
Sablefish.....	.....	.....	.....	1,012	.....	.....	.....	.....	.....	.....	.....	949	949	1,012

TABLE 22  
Commercial Fish Landings in the San Diego Region During 1948

<sup>1</sup> See Table 12 for origin record of shipments and importations of fresh fish.

TABLE 22—*Cont'd.*

TABLE 23  
Pounds and Value of Commercial Fish Landings in California During 1948<sup>1</sup>

Species	Eureka region		Sacramento region		San Francisco region		Monterey region		DIVISION OF FISH AND GAME
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	
Anchovy	13,615	\$558			280,251	\$4,092	7,255,844	\$258,301	
Barracuda									
Bonito									
Catfish	259	23			378	13	3,900	197	
Cod									
Cuttlefish			506,617	625,413	137,209	3,866			
Cuttlefish, Mexican			240,145	63,012	34,584	6,452			
Dolphinfish	137,351	6,019	25	2	225,073	10,030	40,045	2,447	
Flying fish									
Grouper									
Hake					2,900	42	900	8	
Hake, California					75,116	1,002	80,078	18,771	
Hallibut			55,338	12,467					
Herring					16,136	4,677			
Herring, Pacific			100,562	3,013	6,723	1,271	438,681	11,253	
Kingfish					5,176	269	215,699	11,647	
Lingcod			1,668,568	128,949	284,149	23,543	81,470	1,704	
Mackerel							84,827	27,171	
Mackerel, Pacific					2,680	74	153,391	6,473	
Mullet									
Perch			69,115	6,837	87,358	14,033	38,462	3,608	
Pike, Sacramento					338	338	107,661	5,771	
Pompano, California									
Rock bass									
Rockfish			1,522,227	152,197	30,511	23,061	1,000,612	10,815	
Salmon			4,023,952	1,028,211	1,339,801	407,686	1,544,479	279,193	
Salmon, chum			281,421	100,000	127,701	34,145	230,240	60,500	
Salmon, pink			7,253	867	229,869	6,297	95,514,021	3,161,514	
Seabass									
Sea bass, white			60	134	5,692	1,383	48,107	10,212	
Seaweed, greenling							205	16	
Shad							205	13	
Shark			613,844	160,974	426,183	27,172	201,950	613,247	855,616
Shorepuffin								18,311	
Silver									

TABLE 23  
Pounds and Value of Commercial Fish Landings in California During 1948<sup>1</sup>

## COMMERCIAL FISH CATCH OF CALIFORNIA

Skate...	7,200	184		87,980	1,162	5,161	188
Smelt...	2,212	2,212		2,277	157	162	847
Sole...	502,225	502,225		4,546,201	241,557	352,427	23,661
Squid...		1,202	83	249	23		
Stickleback...							
Swordfish, broadbill...				658,303	184,155	785	552
Tuna, albacore...	732,455	204,372		31,213	6,155	2,039,785	599,366
Tuna, bluefin...				364	58	186	29
Tuna, yellowfin...				80,580	3,456	4,422	137
Turbot...	14,959	647					
Wahoo...				56,231	6,794	211	56
Whiting...	166,081	17,463					
Whitefish, ocean...							
Yellowtail...				66,996	999	342	9
Almond rock fish...	30,355	1,674					
Crustacean:							
Crabs...	5,856,114	614,569		5,977,342	636,657	51,901	8,885
Lobster, spiny...							
Prawns...				926,707	56,159	2,777	1,169
Shrimp...							
Shrimps, ghost...							
Mollusks:							
Shells...				41,616	6,063	35,037	5,246
Clams...							
Clam, bay...							
Clam, geoduck...							
Clam, jackknife...							
Clam, littleneck...							
Clam, Washington...	6,602	748		1,083	64		
Mussels...							
Oysters...	44,476	2,381		50,545	3,445	25,572	3,624
Oyster, eastern...				39,882	51,633		
Oyster, Pacific...				11,671		15,115,225	514,199
Squids...							
Total pounds and value...	35,696,946	\$3,454,569	4,000,227	\$592,634	24,098,959	\$2,494,165	137,501,847
							\$1,173,420

<sup>1</sup> This table includes actual landings at California ports by the commercial fishing fleet as well as shipments from other states and foreign countries by truck, rail and ocean liner to California canneries and to the fresh fish dealers.

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TABLE 23—Cont'd.

TABLE 23—Continued  
Pounds and Value of Commercial Fish Landings in California During 1948<sup>1</sup>

Species	Santa Barbara region		Los Angeles region		San Diego region		Total	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Anchovy	204,110	\$6,022	2,972,513	\$74,605	9,767	\$379	10,935,500	\$347,927
Barracuda	34,221	6,660	1,278,411	224,139	812,603	68,810	2,123,737	326,648
Bondo	30	11	4,676,355	1,012,002	458,224	48,985	9,121,125	1,061,125
Cabrilla	1,165	119					8,202	387
Catfish			212,619	32,170	18,166	2,185	296,715	34,355
Catfish, Mexican			1,140	110	1,000	11	1,277,700	52,760
Florentine	969	24	1,140	110	105	11	274,780	49,494
Flying fish			70,906	5,200			605,219	18,679
Grouper			170,744	54,088			70,896	3,260
Hake					184,631	20,268	353,211	38,141
Halibut, California	327,745	99,744	355,418	79,962	354,128	69,599	1,000,013	20,594
Halibut, Pacific							130,314	28,594
Hammerhead							34,363	2,193
Herring, Pacific							150,531	11,101
Kingfish	662	43	394,339	22,516	25,906	2,749	643,027	37,554
Lingcod	4,744	943	6,935	1,006	7,882	940	2,058,675	172,590
Merluccius	5,083,181	162,000	53,295,113	1,000,000	50,715	79,706	90,000,000	2,121,513
Mackerel, Pacific	978,714	29,107	37,847,809	1,327,704	103,312	17,226	39,353,796	1,380,584
Mullet					172,298	16,012	172,298	16,012
Perch	8,085	602	111,835	22,296	842	55	208,164	47,427
Pike, Steller's							166	10
Popper, California							180,432	43,867
Rock bass	17,699	2,117	97,000	11,660	59,290	6,816	164,289	25,633
Rockfish	79,018	5,290	161,947	32,708	92,250	9,874	6,540,978	944,111
Sablefish			53,802	4,876	1,712	41	23,833	174,999
Salmon	20,542	5,767			118		7,769,176	2,009,401
Shad	1,240	1,862	18,862	3,423	127	28	45,157	1,547
Sardines	26,495,190	831,949	231,755,501	6,582,710	8,004,801	148,891	362,037,097	10,732,237
Serpin	2,778	197	180,779	22,223	31,819	4,296	188,074	28,718
Sea bass, black	301	409	10,311	1,000	71,244	1,000	103,000	30,000
Sea bass, white	224,031	42,138	596,565	158,933	239,962	55,054	1,114,290	267,804
Sebastrop, greenling							725	44
Shark							426,368	27,185
Shark	316,329	162,209	322,539	85,827	160,196	10,738	2,890,555	1,061,306

DISTRIBUTION OF POUNDS AND VALUE

TABLE 23  
Pounds and Value of Commercial Fish Landings in California During 1948<sup>1</sup>

	27,687	1,039	48,368	4,335	21,232	2,079	100,297	8,333
Sterlet.....	3,245	222	4,559	399	20,013	1,821	24,472	1,730
Skate.....	115	148	15,512	883	10,010	1,212	119,101	2,597
Sole.....	115	148	16,010	105	12,000	1,212	72,099	5,117
Sole, dogfish.....	633,494	28,331	6,096	545	205	86	21,654,927	1,138,725
Split tail.....							1,412	106
Starfish.....			1,320	65			2,032	56
Swordfish, broadbill.....	166,835	55,128	625,900	207,350	316,431	67,880	1,113,808	354,670
Tuna, albacore.....	332,712	93,519	1,860,000	2,010,000	24,969	7,401	37,666,769	11,010,010
Tuna, bluefin.....	5,471	1,432	5,552,114	1,105,435	94,969	15,818	6,666,762	1,124,538
Tuna, skipjack.....	558	82	13,973,472	2,214,190	44,92,490	7,114,445	58,772,070	9,326,504
Tuna, yellowfin.....			62,625,159	10,354,745	120,732,323	21,420,421	191,121,200	32,049,000
Turbot.....	14,381	347	339	27			114,701	4,534
Waoo.....					300	30		
Whiting.....							222,499	24,220
Whitefish, ocean.....	1,781	225	25,363	2,048	14,663	1,249	41,840	4,534
Yellowtail.....							10,443,000	1,124,538
Miscellaneous fish.....	50,925	2,869	(9,317	4,009	6,412	1,072	207,301	10,638
Crustacean:								
Crab.....	6,368	720	20,908	2,112	39	3	11,913,292	1,263,246
Lobster, spiny.....	111,111	437	284,514	17,554	1,016,061	234,469	1,262,029	54,921
Prawn.....							2,771	1,198
Shrimp, ghost.....							958,707	56,150
Shrimps, ghost.....							1,004	1,004
Mollusks:								
Alacon.....	2,312,018	279,292	797,112	75,964	42,944	4,295	3,228,797	370,900
Clam.....					51,118	10,265	\$1,118	10,265
Clam, cockle.....					10	10	10	10
Clam, paper.....					6,251	4,656	4,656	4,656
Clam, parkdale.....					62	1,121	1,121	1,121
Clam, sand.....					310	1,373	1,373	1,373
Clam, Washington.....					4,759	149	6,602	748
Oyster.....	280	25	350	65			4,759	138
Oysters, eastern.....							120,697	9,430
Oysters, western.....	154,853	10,365	137,583	3,851			151,258	81,633
Squid.....	2,929	117					162,929	11,270
Total pounds and value.....	38,491,619	\$1,905,533	445,927,964	\$29,180,041	214,309,728	\$37,766,400	900,640,206	\$80,556,971

<sup>1</sup> This table includes actual landings at California ports by the commercial fishing fleet as well as shipments from other states and foreign countries by truck, rail and ocean liner to California canneries and to the fresh fish dealers.

<sup>2</sup> For regions north of Santa Barbara crab landings are market crab; in Santa Barbara Region both market and rock crab; in Los Angeles and San Diego Regions rock crab.

COMMERCIAL FISH CATCH OF CALIFORNIA

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*TABLE 23—Cont'd.*

TABLE 24  
*California Commercial Fish Landings—1948*  
*Values for Eureka Region, Indicating Leading Ports, Species and Pounds*

		Value	Pounds
Eureka region totals.....		\$3,454,669	35,686,846
Eureka.....	Sole.....	\$535,040	10,328,965
	Salmon.....	294,467	976,003
	Crab.....	244,054	2,324,327
	Rockfish.....	87,703	1,902,443
	Sablefish.....	72,296	799,740
	Albacore.....	69,024	247,485
	Shark.....	68,041	272,031
	Lingcod.....	48,061	576,957
	Pacific halibut.....	9,065	40,252
	Sand dab.....	8,007	161,115
	Whitebait.....	6,151	58,688
	All other.....	13,702	287,088
	Total.....	\$1,425,641	17,975,094
Fort Bragg (Noyo).....	Salmon.....	\$356,491	1,215,465
	Sole.....	106,735	2,060,520
	Albacore.....	94,341	338,281
	Sablefish.....	61,151	676,451
	Lingcod.....	53,784	646,167
	Rockfish.....	43,194	936,953
	Crab.....	19,642	187,063
	All other.....	15,777	175,743
	Total.....	\$751,115	6,336,623
Fields Landing.....	Sole.....	\$188,213	3,635,391
	Crab.....	144,663	1,376,794
	Shark.....	85,199	340,934
	Salmon.....	55,084	203,190
	Rockfish.....	48,119	1,043,794
	Lingcod.....	25,830	310,090
	Sablefish.....	18,439	203,975
	Albacore.....	3,117	11,177
	All other.....	9,635	160,745
	Total.....	\$578,579	7,286,090
Crescent City.....	Salmon.....	\$198,844	733,744
	Crab.....	197,697	1,882,831
	Albacore.....	21,323	76,487
	Lingcod.....	8,614	103,415
	Whitebait.....	6,848	65,344
	All other.....	13,375	179,043
	Total.....	\$446,710	3,940,864
Point Arena.....	Salmon.....	\$99,730	368,006
	Albacore.....	14,650	52,530
	All other.....	1,367	15,212
	Total.....	\$115,747	435,748
Shelter Cove.....	Salmon.....	\$98,666	364,083
	Lingcod.....	1,710	20,537
	All other.....	655	4,667
	Total.....	\$101,034	389,277
Trinidad.....	Salmon.....	\$19,263	71,450
	Crab.....	7,366	70,455
	All other.....	5,698	52,722
	Total.....	\$32,427	194,627
All other ports.....	All other.....	\$3,316	28,523
	Total.....	\$3,316	28,523

TABLE 24  
*California Commercial Fish Landings—1948*  
*Values for Eureka Region, Indicating Leading Ports, Species and Pounds*

TABLE 25  
*California Commercial Fish Landings—1948*  
*Values for Sacramento Region, Indicating Leading Ports, Species and Pounds*

		Value	Pounds
Sacramento region totals.....		\$592,634	4,093,227
Pittsburg.....	Salmon.....	\$282,586	1,172,068
	Shad.....	22,948	360,253
	Catfish.....	18,795	104,882
	Carp.....	8,972	186,911
	All other.....	70	1,007
	Total.....	\$333,371	1,825,121
Sacramento.....	Salmon.....	\$105,480	437,493
	Catfish.....	11,427	63,760
	Hardhead.....	2,446	8,177
	Shad.....	1,376	21,598
	All other.....	221	4,440
	Total.....	\$120,950	535,483
Martinez.....	Salmon.....	\$56,734	235,314
	Pacific herring.....	13,378	668,910
	All other.....	2,063	32,396
	Total.....	\$72,175	936,620
Lake Almanor.....	Carp.....	\$22,504	468,833
	Total.....	\$22,504	468,833
Benicia.....	Salmon.....	\$21,125	87,620
	All other.....	868	13,668
	Total.....	\$21,193	101,288
Stockton.....	Catfish.....	\$7,843	43,764
	All other.....	1,775	7,584
	Total.....	\$9,618	51,348
Tracy.....	Catfish.....	\$4,596	25,608
	Total.....	\$4,596	25,608
All other ports.....	Carp.....	\$7,046	146,800
	All other.....	381	2,126
	Total.....	\$7,427	148,926

TABLE 25  
*California Commercial Fish Landings—1948*  
*Values for Sacramento Region, Indicating Leading Ports, Species and Pounds*

TABLE 26  
*California Commercial Fish Landings—1948*  
*Values for San Francisco Region, Indicating Leading Ports, Species and Pounds*

		Value	Pounds
San Francisco region totals.....		\$2,494,165	24,098,955
San Francisco.....			
Shark.....	\$535,590	176,361	
Crab.....	437,909	4,118,880	
Sole.....	180,632	3,395,342	
Albacore.....	155,676	575,549	
Pacific herring.....	115,154	6,176,829	
Salmon.....	77,953	317,528	
Shrimp.....	28,608	472,074	
Smelt.....	21,149	341,660	
Sand dab.....	19,338	369,747	
Perch.....	14,037	87,348	
Lingcod.....	12,013	145,086	
Rockfish.....	11,302	145,454	
Pacific halibut.....	10,878	68,847	
All other.....	45,062	883,885	
Total.....	\$1,030,501	17,800,790	
Point Reyes.....			
Salmon.....	\$218,006	888,009	
Crab.....	75,372	24,836	
Eastern oyster.....	60,861	575,788	
Sole.....	41,061	227,863	
Rockfish.....	33,212	624,285	
All other.....	6,643	85,495	
Total.....	\$449,360	2,634,927	
Bay (Bodega).....			
Crab.....	\$80,547	572,818	
Sole.....	27,907	525,288	
Salmon.....	22,777	92,789	
Albacore.....	16,517	50,932	
Lingcod.....	1,709	93,105	
Rockfish.....	5,707	73,455	
All other.....	14,070	251,868	
Total.....	\$155,324	1,670,235	
Princeton by the Sea (Halfmoon Bay).....			
Salmon.....	\$47,870	194,989	
Crab.....	12,679	120,055	
Abalone.....	6,093	41,616	
Albacore.....	6,069	22,020	
All other.....	5,634	238,697	
Total.....	\$78,345	617,377	
Oakland.....			
Crab.....	\$55,531	506,442	
Catfish.....	5,979	32,048	
Carp.....	2,658	36,964	
All other.....	538	1,973	
Total.....	\$62,706	577,427	
Richmond.....			
Shrimp.....	\$13,180	217,489	
All other.....	1,583	52,242	
Total.....	\$14,763	269,731	
McNear's Point.....			
Shrimp.....	\$11,092	183,042	
Total.....	\$11,092	183,042	
All other ports.....			
All other.....	\$42,074	345,426	
Total.....	\$42,074	345,426	

TABLE 26  
*California Commercial Fish Landings—1948*  
*Values for San Francisco Region, Indicating Leading Ports, Species and Pounds*

**TABLE 27**  
**California Commercial Fish Landings—1948**  
**Values for Monterey Region, Indicating Leading Ports, Species and Pounds**

		Value	Pounds
Monterey region totals.....		\$5,173,420	137,931,847
Monterey.....	Sardine.....	\$2,880,239	87,288,189
	Albacore.....	539,825	2,047,120
	Squid.....	501,382	18,638,730
	Jack mackerel.....	254,395	8,259,605
	Anchovy.....	240,008	6,741,792
	Rockfish.....	97,767	1,344,794
	Salmon.....	48,640	176,361
	Sole.....	15,537	231,546
	Pacific herring.....	11,271	438,571
	California halibut.....	7,721	37,281
	Sablefish.....	6,491	14,896
	Lingcod.....	6,140	68,525
	Smelt.....	5,971	102,587
	Kingfish.....	5,731	105,152
	Ahalone.....	5,256	35,037
	All other.....	17,911	207,771
	Totals.....	\$4,653,285	125,871,267
Santa Cruz.....	Sardine.....	\$80,105	2,420,103
	Albacore.....	50,541	191,392
	California pompano.....	33,018	105,247
	Rockfish.....	22,339	364,225
	Anchovy.....	15,593	438,018
	Salmon.....	14,766	53,537
	Jack mackerel.....	11,570	375,961
	Sole.....	10,018	149,305
	White sea bass.....	9,652	45,466
	California halibut.....	8,884	42,895
	All other.....	26,075	479,165
	Totals.....	\$282,359	4,605,584
Moss Landing.....	Sardine.....	\$192,170	5,805,723
	Shark.....	17,287	807,790
	Squid.....	12,812	47,300
	Jack mackerel.....	7,766	252,157
	All other.....	7,741	113,020
	Totals.....	\$237,776	7,454,096

**TABLE 27**  
**California Commercial Fish Landings—1948**  
**Values for Monterey Region, Indicating Leading Ports, Species and Pounds**

TABLE 28  
*California Commercial Fish Landings—1948*  
*Values for Santa Barbara Region, Indicating Leading Ports, Species and Pounds*

		Value	Pounds
Santa Barbara region totals.....		\$1,895,533	38,491,819
Port Hueneme.....	Sardine.....	830,008	26,433,278
	Jack mackerel.....	165,319	5,681,034
	Pacific mackerel.....	28,904	969,912
	All other.....	17,560	260,870
	Totals.....	\$1,041,791	33,345,194
Santa Barbara.....	Abalone.....	\$145,073	1,200,936
	Shark.....	128,696	250,967
	California halibut.....	85,088	450,203
	Broadbill swordfish.....	58,478	165,005
	Sixgill shark.....	18,183	104,155
	Sixgill shark.....	39,318	309,027
	White sea bass.....	21,535	81,140
	Albacore.....	16,778	285,074
	Sole.....	6,556	33,692
	Barracuda.....	10,059	126,071
	Totals.....	\$551,859	2,912,170
Morro Bay.....	Abalone.....	\$63,589	526,400
	Albacore.....	28,485	107,329
	Pacific oyster.....	10,366	154,953
	All other.....	6,545	50,733
	Totals.....	\$108,985	839,435
Avila.....	Abalone.....	\$31,408	259,999
	Sole.....	20,818	354,857
	Albacore.....	10,652	40,134
	Shark.....	8,609	16,789
	Salmon.....	5,663	20,173
	California halibut.....	5,649	29,890
	All other.....	6,164	52,148
	Totals.....	\$88,963	773,790
Camibia.....	Abalone.....	\$36,123	299,033
	All other.....	121	1,175
	Totals.....	\$36,244	300,208
San Simeon.....	Albacore.....	\$32,519	122,529
	Abalone.....	3,099	25,650
	Totals.....	\$35,618	148,179
Pismo Beach.....	Shark.....	\$17,557	34,237
	All other.....	160	1,272
	Totals.....	\$17,717	35,509
All other ports.....	All other.....	\$14,356	137,134
	Totals.....	\$14,356	137,134

TABLE 28  
*California Commercial Fish Landings—1948*  
*Values for Santa Barbara Region, Indicating Leading Ports, Species and Pounds*

TABLE 29  
*California Commercial Fish Landings—1948*  
*Values for Los Angeles Region, Indicating Leading Ports, Species and Pounds*

		Value	Pounds
Los Angeles region totals.....		\$29,180,241	445,927,984
Terminal Island.....	Yellowfin tuna.....	\$8,441,263	50,075,715
	Sardine.....	3,807,628	134,071,421
	Skipjack tuna.....	1,714,266	10,822,385
	Albacore.....	1,692,345	5,955,963
	Jack mackerel.....	981,365	33,723,890
	Bluefin tuna.....	829,969	4,936,294
	Bonito.....	600,027	5,193,035
	Yellowtail.....	520,117	4,622,670
	Pacific mackerel.....	261,683	7,459,598
	All other.....	32,039	137,536
	Totals.....	\$18,895,002	257,075,707
Long Beach.....	Yellowfin tuna.....	\$1,312,536	7,786,298
	Sardine.....	1,158,897	40,806,223
	Albacore.....	298,360	1,050,562
	Bonito.....	263,286	2,256,091
	Jack mackerel.....	244,560	8,404,110
	Skipjack tuna.....	214,320	3,222,918
	Yellowtail.....	198,031	1,758,73
	Pacific mackerel.....	152,501	4,347,252
	Bluefin tuna.....	144,369	859,339
	Spiny lobster.....	15,779	35,347
	Anchovy.....	6,160	245,422
	Barrauda.....	2,246	12,815
	All other.....	3,411	17,901
	Totals.....	\$4,041,366	69,102,991
Wilmington.....	Sardine.....	\$1,100,688	38,756,636
	Yellowfin tuna.....	795,740	4,720,469
	Jack mackerel.....	393,632	13,566,265
	Skipjack tuna.....	254,863	1,607,000
	Albacore.....	224,175	791,460
	Bonito.....	136,188	1,166,989
	Pacific mackerel.....	117,662	3,354,118
	Yellowtail.....	103,388	918,191
	Bluefin tuna.....	72,683	432,638
	All other.....	9,627	184,635
	Totals.....	\$3,209,352	65,444,521
Newport Beach.....	Pacific mackerel.....	\$582,908	10,605,139
	Sardine.....	230,386	8,119,209
	Albacore.....	207,329	730,030
	Broadbill swordfish.....	115,261	350,126
	Abalone.....	48,707	511,087
	Spiny lobster.....	33,543	75,142
	Shark.....	32,710	122,925
	Anchovy.....	32,576	1,297,864
	Barrauda.....	21,202	120,949
	Yellowtail.....	20,105	178,553
	Jack mackerel.....	18,475	634,896
	California halibut.....	16,132	71,794
	Rockfish.....	12,235	107,321
	All other.....	37,832	278,432
	Totals.....	\$1,408,901	29,203,458
San Pedro.....	Barrauda.....	\$180,247	1,028,222
	Sardine.....	147,263	5,185,312
	White sea bass.....	142,147	533,585
	Pacific mackerel.....	126,013	3,592,147
	Spiny lobster.....	72,215	161,773
	Jack mackerel.....	57,973	1,092,196
	Bluefin tuna.....	55,403	329,777
	California halibut.....	54,692	243,402
	Broadbill swordfish.....	42,554	130,177
	Shark.....	39,357	134,166
	Rockfish.....	29,633	259,939
	Grouper.....	29,515	145,755
	Cabilla.....	28,200	186,382
	Albacore.....	25,413	89,482
	Perch.....	19,678	98,737

TABLE 29  
*California Commercial Fish Landings—1948*  
*Values for Los Angeles Region, Indicating Leading Ports, Species and Pounds*

TABLE 29—Continued  
*California Commercial Fish Landings—1948*  
 Values for Los Angeles Region, Indicating Leading Ports, Species and Pounds

		Value	Pounds
San Pedro—Continued			
	Black sea bass.....	\$18,119	106,773
	Solepin.....	17,187	109,009
	Yellowtail.....	14,553	149,698
	Smelt.....	12,410	136,220
	Kingfish.....	11,907	205,997
	Anchovy.....	11,082	441,497
	Abalone.....	10,752	112,823
	All other.....	39,365	339,763
	Totals.....	\$118,407	15,697,142
Santa Monica.....	Sardine.....	\$109,879	3,869,014
	Pacific mackerel.....	83,112	2,528,133
	Spiny lobster.....	33,670	75,425
	Anchovy.....	22,989	75,183
	Shark.....	15,335	55,375
	Barreleye.....	11,583	65,990
	Albacore.....	9,067	31,925
	Broadbill swordfish.....	6,299	19,133
	California halibut.....	6,267	27,889
	Rockfish.....	6,211	54,486
	Abalone.....	6,115	64,168
	All other.....	17,018	164,030
	Totals.....	\$326,925	7,712,721
Redondo Beach.....	Sardine.....	\$27,778	978,116
	Spiny lobster.....	5,615	14,819
	Pacific mackerel.....	4,210	120,016
	Rockfish.....	2,941	25,800
	Baracuda.....	2,800	15,974
	Rock crab.....	2,009	19,890
	All other.....	12,644	92,585
	Totals.....	\$59,907	1,267,200
Avalon.....	Broadbill swordfish.....	\$10,866	33,007
	Abalone.....	5,560	58,345
	Baracuda.....	3,428	19,556
	Albacore.....	2,802	9,867
	All other.....	5,185	38,651
	Totals.....	\$27,851	159,426
All other ports.....	All other.....	\$27,240	264,818
	Totals.....	\$27,240	264,818

TABLE 29  
*California Commercial Fish Landings—1948*  
 Values for Los Angeles Region, Indicating Leading Ports, Species and Pounds

TABLE 30  
*California Commercial Fish Landings—1948*  
*Values for San Diego Region, Indicating Leading Ports, Species and Pounds*

		Value	Pounds
San Diego region totals.....		\$37,766,409	214,309,728
San Diego.....	Yellowfin tuna.....	\$18,482,255	109,063,892
	Skipjack tuna.....	6,136,416	38,637,491
	Albacore.....	6,058,106	20,203,790
	Spiny lobster.....	323,981	999,334
	Yellowtail.....	266,871	2,477,913
	Sardine.....	145,891	8,004,901
	Barracuda.....	95,348	808,787
	Broadbill swordfish.....	87,880	316,431
	California halibut.....	65,387	326,898
	White sea bass.....	53,023	230,525
	Bonito.....	44,019	411,775
	Grouper.....	25,245	184,406
	Pacific mackerel.....	16,931	398,305
	Bluefin tuna.....	15,504	94,881
	Black sea bass.....	10,919	70,674
	Shark.....	10,056	131,281
	Clam.....	9,248	46,070
	Rockfish.....	8,114	84,348
	All other.....	24,375	247,652
	Totals.....	\$31,896,562	182,739,254
Point Loma.....	Yellowfin tuna.....	\$3,397,166	20,030,460
	Albacore.....	1,427,428	4,760,468
	Skipjack tuna.....	978,029	6,154,999
	Yellowtail.....	28,921	268,531
	All other.....	4,963	46,381
	Totals.....	\$5,836,505	31,260,839
Salton Sea.....	Mullet.....	\$10,453	172,288
	Totals.....	\$10,453	172,288
All other ports.....	All other.....	\$19,889	137,347
	Totals.....	\$19,889	137,347

TABLE 30  
*California Commercial Fish Landings—1948*  
*Values for San Diego Region, Indicating Leading Ports, Species and Pounds*

TABLE 31  
Origin of Commercial Fish Landings in California During 1949

Species	California	North of the state boundary <sup>1</sup>	South of the international boundary <sup>2</sup>	Peru	Japan	Total pounds	DIVISIONS OF FISH AND GAME
Anchovy	3,322,375					3,322,273	
Barnacles	59,374					2,473,961	
Bass, white	69,241		1,745,962			1,745,962	
Cabazon	16,046					16,046	
Cod, California			210,965			210,965	
Carp	643,218					643,218	
Catfish	201,720					201,720	
Cowfish	111					111	
Flounder	24,966	6,168				356,274	
Frigate fish	34,269					34,269	
Grouper			290,615			290,615	
Hake	1,535					1,535	
Hallibut, California	1,020,000		180,013			1,020,013	
Hallibut, Pacific	167,342					167,342	
Haddock	17,354					17,354	
Herring	270,234					270,234	
Kingfish	764,420					764,420	
Lamprey	1,580					1,580	
Mackerel, rock	51,350,988		104,007	623		\$1,250,988	
Mackerel, Pacific	49,771,375					49,771,375	
Mullet	201,201					201,201	
Perch	329,589					329,589	
Pike, Sacramento	99,161					99,161	
Pompano, California	89,272					89,272	
Rock bass		128,076		42,503		128,579	
Rockfish	5,487,176		480,190	1,120,000		6,087,266	
Sablefish	1,612,180		155,686	3,347		1,771,223	
Salmon	6,401,178		445,626			6,847,774	
Sand dab	732,156		625			732,156	
Sardine	633,374,991					633,374,991	
Sargo	142,120		1,581			142,120	
Sea bass, black	17,221			105,240		122,461	
Sea bass, white	948,502			468,736		1,417,238	
Sebastodes, long	728					728	
Shad	735,826					735,826	
Shark	1,242,130			15,015		1,257,145	
Shermanid	48,509			3,688		61,324	
Sierra						3,688	

TABLE 31  
Origin of Commercial Fish Landings in California During 1949

## COMMERCIAL FISH CATCH OF CALIFORNIA

Slate.....	125,360		114		125,461
Sole.....	718,538				715,828
Sole.....	17,202,222	2,527,032			19,729,254
Split-tail.....					332
Starfish.....	1,109				1,109
Swordfish, broadbill.....	141,824		56,637		198,351
Tuna, bluefin.....	20,203,400	478,681	28,838	114,003	44,752,151
Tuna, bluefin.....	2,268,155		2,122,515		4,389,390
Tuna, skipjack.....	26,844,000		2,500,000		28,344,000
Tuna, skipjack.....	6,844		14,642,601	635,800	18,612,091
Turtle.....	95,602				95,602
Whiting.....	241,746				241,746
Whiting, ocean.....	12,658		25,166		37,821
Yellowtail.....	15,888		7,303,000		7,319,494
Micellaneous fish.....	252,711		7,838		254,454
Total pounds.....	827,633,841	3,915,480	303,010,866	644,094	1,135,318,314

<sup>1</sup> Includes 11,865 pounds of miscellaneous fish shipped from Continental United States.<sup>2</sup> Includes 128,365 pounds of yellowtail tuna caught in the vicinity of the Hawaiian Islands.

TABLE 31—Cont'd.

TABLE 32  
Monthly Commercial Fish Landings in California During 1949

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchoa.....	42,393	41,369	134,406	241,665	208,427	262,214	270,885	191,208	229,265	29,525	1,149,427	225,192	3,222,273
Barracuda.....	90,443	357,243	273,145	282,633	333,824	380,854	169,183	242,216	103,206	167,698	142,230	31,206	2,473,961
Bonito.....	34,032	16,367	11,316	844	39,608	27,279	756,414	428,848	187,497	26,674	31,200	30,705	1,834,196
Cabilla.....	1,414	2,000	1,474	1,474	1,474	1,474	1,474	1,474	1,474	1,474	1,474	1,474	1,474
Codfish.....	20,652	14,097	37,529	20,623	4,547	10,226	33,574	3,468	4,029	6,074	1,172	26,101	27,116
Carp.....	2,400	4,727	3,385	32,360	32,360	133,279	40,430	8,692	129,000	100,000	56,400	142,730	310,394
Catfish.....	5,734	3,480	16,338	20,451	3,480	3,480	3,480	3,480	3,480	3,480	3,480	3,480	201,730
Cowfish.....	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111
Cowfish, California.....	72,617	56,967	21,111	11,081	13,008	1,999	14,550	35,455	18,837	35,155	40,684	33,591	34,260
Frigate fish.....	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111
Grouper.....	15,477	16,127	39,690	7,990	1,049	23,845	48,208	707	1,247	412	8,341	57,557	299,515
Jacks.....	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111
Haddock, California.....	65,590	99,610	231,851	127,565	119,741	134,383	71,455	81,679	81,333	78,938	106,746	69,549	1,362,511
Haddock, Pacific.....	21,841	12,478	8,734	1,652	1,652	4,727	16,600	16,600	16,600	16,600	16,600	16,600	16,600
Herring.....	101,052	97,473	15,719	410	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111
Herring, Pacific.....	11,200	97,780	114,114	118,808	118,808	118,808	118,808	118,808	118,808	118,808	118,808	118,808	118,808
Lingcod.....	156,405	53,209	63,236	118,303	155,853	182,435	186,001	261,772	127,584	111,677	111,677	111,677	79,130
Mackerel, Jack.....	6,479,046	3,609,531	2,110,016	1,184,349	317,822	16,420	2,645,434	1,436,434	1,436,434	1,436,434	1,436,434	1,436,434	51,656,961
Mackerel, Pelican.....	120,001	120,001	120,001	120,001	120,001	120,001	120,001	120,001	120,001	120,001	120,001	120,001	120,001
Mullet.....	120,001	7,825	33,558	17,654	16,420	11,805	1,111	1,111	1,111	1,111	1,111	1,111	1,111
Petrel.....	14,200	27,249	30,422	88,669	8,669	8,669	8,669	8,669	8,669	8,669	27,050	88,914	391,161
Pike, California.....	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111
Pompano, California.....	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111
Pompano, Florida.....	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111
Rockfish.....	451,264	264,608	398,477	437,155	499,633	890,613	263,857	727,967	550,990	503,183	364,590	505,204	6,067,877
Sablefish.....	11,111	11,111	11,111	11,111	11,111	11,111	11,111	11,111	11,111	11,111	11,111	11,111	11,111
Salmon.....	85,945	151,617	150,574	208,577	858,886	831,194	1,848,053	1,503,258	897,058	31,105	35,893	3,894	6,842,774
Sand dab.....	25,879	46,755	69,969	84,896	81,216	69,471	60,299	71,012	45,298	61,804	20,032	25,824	722,111
Sardines.....	33,947,720	28,237	12,157	4,595	4,595	4,595	4,595	4,595	33,160,500	104,859,404	248,000	87,000	632,599,591
Sealpin.....	2,527	8,860	14,061	23,059	5,867	19,096	17,367	15,402	6,749	10,364	7,833	14,142	148,367
Sea bass, black.....	2,114	3,816	8,319	9,889	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	121,411
Sea bass, white.....	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111	1,111
Sebastout, greenling.....	1,111	12,098	61,558	47,049	137,447	223,190	147,447	327,181	199,270	152,030	81,957	16,648	1,492,338
	13	100	100	24	24	17	42	471	45	45	45	45	736

DRAFTS AND SURVEYS OF THE FISHERIES

OF CALIFORNIA

TABLE 32  
Monthly Commercial Fish Landings in California During 1949

COST PER POUND

Shad.....	29,260	225,528	3,354	255,114	175,146	2,212	76,665	37,590	63,807	46,414	49,484	79,331	735,826
Shark.....	3,653	6,772	51	2,011	1,368	4,291	1,176	2,609	1,433	1,945	1,945	10,545	1,641
Sole.....	3,453	58	3	1,368	1,368	1,368	1,368	1,368	1,368	1,368	1,368	1,368	3,668
Skate.....	9,222	12,146	14,362	12,214	17,456	7,716	3,894	9,251	7,616	13,192	9,142	2,853	125,464
Smelt.....	1,417	1,417	1,417	1,417	1,417	1,417	1,417	1,417	1,417	1,417	1,417	1,417	1,417
Sole.....	1,417,228	718,918	959,709	1,008,885	1,719,317	2,068,102	2,046,708	2,771,237	2,066,507	1,786,321	1,637,074	641,947	19,729,254
Spiny-tail.....	6	201	1,180	1,180	1,180	1,180	1,180	1,180	1,180	1,180	1,180	1,180	1,180
Stingray.....	485	280	7,087	35,354	62,810	46,813	47,558	12,205	5,565	198,361			
Swallowfish, broadbill.....	162,211	33,727	161,221	280	15,887	15,887	12,400	11,000	4,000	50,200	1,100	1,100	1,100
Tuna, albacore.....	10,490	1,173,579	204,031	2,320	210,630	87,889	1,244,000	447,643	61,113	58,164	58,164	4,350,360	
Tuna, skipjack.....	1,814,496	1,731,009	3,406,924	2,340,878	5,754,386	6,702,750	4,068,477	11,295,169	17,732,051	10,041,469	1,846,057	3,847,149	28,674,657
Tuna, yellowfin.....	10,490	4,000	14,400	22,440	23,880	24,811	13,800	14,400	12,400	12,400	12,400	14,400	14,400
Turbot.....	16,418	13,206	6,273	6,850	6,854	1,827	1,783	12,401	11,143	5,358	8,869	1,764	95,602
Whitebait.....	7,625	11,637	33,617	49,531	51,275	49,527	26,800	11,200	11,200	2,214	1,510	17,320	3,973
Whiting.....	4,935	5,656	2,020	2,020	2,020	2,020	2,020	2,020	2,020	2,020	2,020	2,020	2,020
Yellowtail.....	142,268	150,054	202,279	142,824	322,913	909,559	554,559	2,657,615	1,505,774	183,790	315,507	192,631	2,119,494
Miscellaneous fish.....	1,349	6,496	6,496	4,734	10,119	8,214	13,620	24,652	8,650	30,116	17,369	11,814	20,614
Total pounds.....	\$7,800,000	15,179,122	27,351,129	36,687,925	45,566,530	41,959,931	54,585,269	96,703,876	172,839,306	305,460,183	130,279,197	150,760,004	1,155,318,314

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TABLE 32—Cont'd.

TABLE 33  
Commercial Fish Landings in the Eureka Region During 1949

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds	DIVISION OF FISH AND GAME
Fishing boat landings from California waters														
Cod.....					18									151
Carp.....														92,244
Haddock.....	44,785	13,597	8,521	3,285	5,127	68,540	18,656	5,648	9,522	133	24,121	22,511	178,153	
Hake, Pacific.....	49			585	156	25,270	39,347	11,246	5,919	513	1,805	204	34	36,183
Herring, Pacific.....	2,706													2,700
Lingcod.....	14,014	14,612	20,095	18,790	172,758	92,480	129,107	201,281	78,939	60,451	78,488	46,175	1,025,271	
Petrel.....	191,692	883	7,030	19,998			10,688	29,706	7,480	266	312	59	77,694	
Rockfish.....	141,052	58,164	14,872	16,551	398,448	396,940	453,565	312,455	218,447	185,028	199,374	212,411	2,810,551	
Sablefish.....	62,031	2,166	10,496	12,232	115,555	20,410	12,423	12,411	11,268	11,268	11,268	11,268	11,268	
Salmon.....					185,464	331,346	308,356	235,574	899,078	82,582				2,573,948
Sand dab.....	20,665	10,014	16,743	17,243	6,021	19,491	18,543	10,255	10,255					
Sardine.....								4,890	4,190					
Sea bass, white.....			160							10	155	343	670	
Shad.....	141,051	2,079	2,447	2,271	511	1,587	1,587	1,587	1,587	744	3,010	3,010	8,118	
Skate.....		200	720	600		1,720	3,345	1,852	5,601	2,212	1,051		14,550	
Shark.....			1,150	600									36,150	
Sole.....	801,245	277,164	49,000	739,245	988,298	1,081,344	1,333,525	1,712,650	1,286,485	1,025,236	1,215,141	300,692	11,346,149	
Tuna, albacore.....								4,150	640,828	1,806,941	310,298	7,864		2,770,059
Turbot.....	165	150	651	480	115	400	400	400	400	249	1,176		1,176	
Whitebait.....	5,329	8,021	30,093	45,410	48,538	(2,471	22,562	8,381	23	154				211,452
Miscellaneous fish.....	450	698	345	345	65		3,072	19,512	2,793	3,473	4,887	4,861	42,092	
Crustacean:														
Crab.....	1,133,087	1,017,796	1,143,057	1,179,783	1,459,838	217,597	92,198	35,626			158,508	569,674	7,354,354	
Mollusk:														
Clam, Washington.....	562	948	1,005	532										
Oceanus.....	8,947	1,195	2,939	1,891	264	165	200	285	699	343	645	4,925		
Total pounds.....	2,553,272	1,401,191	1,844,432	2,618,762	3,514,888	2,351,538	3,014,633	4,202,716	3,651,380	1,754,382	1,813,752	1,241,050	29,981,866	

TABLE 33  
Commercial Fish Landings in the Eureka Region During 1949

Fishing boat landings from waters north of the state boundary															
Flounder	1,971		72	149		6,062	23,614	8,114	19,807	10,539	1,078	2,448		6,468	
Lingcod	563	3,255	18,739	18,697	95,067	8,849	75,652	31,318	77,124	77,147	11,211	2,473		104,397	
Rockfish	1,929					3,887	2,510	4,581	6,000	41,335	43,443	82,565	11,800	480,190	
Solefish														127,835	
Salmon														27,412	
Sand dab									22	9,094	18,373			625	
Sole	14,807	43,969	424,831	90,030		354,134	300,108	606,016	310,332	206,872	114	38		2,527,032	
Tuna, albacore									3,594	41,807				48,401	
Crustacean:														906	
Crab	500		115	216		135								605	
Mollusk:															
Octopus															
Total pounds	19,800	66,150	543,220	108,156	458,731	346,168	756,920	501,044	307,563	213,169				3,320,921	
Grand totals Eureka region	2,553,072	1,401,191	1,910,582	3,161,082	3,623,044	2,790,299	3,390,821	5,019,636	4,152,424	2,061,925	2,026,921	1,241,050		33,302,917	

TABLE 33—Cont'd.

TABLE 34  
Commercial Fish Landings in the Sacramento Region During 1949

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Fishing boat landings from California waters													
Capelin	688	1,312	12,605	41,321	42,799	52,493	75	47	100,533	99,887	89,888	4,418	440,116
Catfish	8,754	3,580	15,708	19,828	320				29,398	47,878	40,318	24,296	189,800
Flounder			239	52							130		491
Hardhead			10	7	1,637	610					2,966	2,000	1,601
Herring													8,831
Pike	30	16	101	388	37							2,650	2,600
Salmon	16,651	68,802	70,666	70,064	143,198	12,791			97,550	389,566			604
Sardine									409,500	1,334,000	575,000	53,500	399,090
Shad													2,530,500
Split-tail	6	201									110	3	785
Miscellaneous fish													325
Grand totals, Sacramento region	26,123	73,716	102,884	392,496	602,964	68,186	75	498,097	1,853,097	725,844	205,471	210,359	4,810,912

TABLE 34  
Commercial Fish Landings in the Sacramento Region During 1949

TABLE 35  
Commercial Fish Landings in the San Francisco Region During 1949

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds	Division of Fish and Game
Fishing boat landings from California waters:														
Ashley . . . . .	1,216	582	50	433	729	471	500	140	150	162	112	112	21,674	4,570
Cabraso . . . . .	1,650	1,000	3,615	5,235	2,789	4,760	2,670	2,967	3,246	3,000	2,766	2,766	21,221	2,221
Carp . . . . .	1,650	1,650	349	349	1,684	1,403	2,559	15,705	7,555	12,950	8,620	5,538	11,870	11,870
Flounder . . . . .	21,218	40,278	12,917	5,476	1,071	1,403	1,071	1,071	1,071	1,071	1,071	1,071	14,155	14,155
Hake . . . . .	2,422	1,385	910	167	383	1,071	383	343	319	243	627	565	9,021	9,021
Halibut, California Halibut . . . . .	21,798	12,475	8,180	1,301	3,166	6,674	8,201	3,088	2,762	2,134	1,441	5,914	91,125	91,125
Haddock . . . . .	29,279	25,495	19,951	37,265	51,195	54,225	42,235	33,270	28,560	22,440	21,739	13,463	46,383	8,823
Herring, Pacific . . . . .	96,431	97,075	15,570	320	45	111	523	760	280	—	—	—	271,569	271,569
Lingcod . . . . .	29,279	25,495	19,951	37,265	51,195	54,225	42,235	33,270	28,560	22,440	21,739	13,463	382,617	382,617
Mackerel, Pacific . . . . .	29,279	25,495	19,951	37,265	51,195	54,225	42,235	33,270	28,560	22,440	21,739	13,463	3,000	3,000
Pacific salmon . . . . .	3,271	1,688	1,222	1,222	1,222	1,222	1,222	1,222	1,222	1,222	1,222	1,222	10,033	10,033
Rockfish . . . . .	12,243	15,792	39,337	87,233	106,087	49,615	27,511	33,201	48,578	32,676	64,195	2,944	531,071	531,071
Sablefish . . . . .	9,770	1,882	8,673	1,343	1,437	270,519	922,098	450,936	292,882	1,271	1,808	587	2,455,543	2,455,543
Salmon . . . . .	15,516	15,516	15,516	15,516	15,516	15,516	15,516	15,516	15,516	15,516	15,516	15,516	91,805	91,805
Sand dab . . . . .	65,916	30,516	42,520	87,171	66,792	50,545	41,865	40,045	27,680	38,080	11,818	1,144	431,805	431,805
Sardine . . . . .	18	18	18	18	18	18	18	18	18	18	18	18	31,865	31,865
Sea lamprey . . . . .	18	18	18	18	18	18	18	18	18	18	18	18	8,218	8,218
Seatrout, greenling . . . . .	18	18	18	18	18	18	18	18	18	18	18	18	820	820
Shad . . . . .	18	18	18	18	18	18	18	18	18	18	18	18	871	871
Shark . . . . .	34,600	9,261	6,905	1,851	15,169	38,239	3,213	14,065	10,952	12,210	6,482	13,694	166,725	166,725
Skate . . . . .	14,492	45,056	131,418	94,510	47,112	44,419	36,213	9,715	7,075	6,647	1,568	99	5,074	5,074
Sole . . . . .	568,222	335,249	296,374	505,718	664,811	491,708	298,290	309,911	323,120	286,713	238,002	264,928	4,404,033	4,404,033
Spiny dogfish . . . . .	18	18	18	18	18	18	18	18	18	18	18	18	289	289
Tuna, albacore . . . . .	13,240	12,452	3,465	3,516	5,683	2,475	2,471	2,434	5,839	11,654	1,318	2,221	1,505,087	1,505,087
Turtle . . . . .	18	18	18	18	18	18	18	18	18	18	18	18	209	209
Whiting . . . . .	18	18	18	18	18	18	18	18	18	18	18	18	29,860	29,860
Miscellaneous fish . . . . .	728	218	366	364	523	898	8,596	2,263	1,222	14,335	9,067	1,576	40,856	40,856

TABLE 35  
Commercial Fish Landings in the San Francisco Region During 1949

Crustaceans	316,877	235,421	64,563	67,257	133,206	75,273	76,047	112,271	87,481	10,639	1,175,915	1,471,363	3,607,323
Crab.....	18,998	31,184	38,278	68,526	83,662	109,456	110,169	178,943	87,481	10,639	13,239	25,896	806,441
Mollusks													
Abalone.....													53,644
Octopus.....	4,042	4,326		6,764	11,200	8,717	8,350	8,471	3,353	5,750	1,050		
Oyster, eastern.....	2,300	3,025	2,209	2,585	3,857	1,503	1,090	254	263	183	670	801	24,184
Oyster, Pacific.....	11,027	11,309	10,381	11,073	3,732	1,450	1,256	3,450	5,250	4,250	4,153	4,153	44,775
Total pounds.....	1,236,847	983,738	730,492	1,302,033	1,411,470	1,370,639	1,631,496	4,724,355	8,994,501	10,314,781	9,755,926	5,368,107	47,785,559
Fishing boat landings from waters south of San Francisco bay.....													
Shark.....		12,185											12,185
Tuna, bluefin.....		222,700											222,700
Total pounds.....		234,890											234,890
Shipments and importations of fresh fish <sup>1</sup>													
Tuna, yellowfin.....							29,229				279,575	65,314	334,515
Tuna, skipjack.....										4,745			4,235
Total pounds.....							29,229				283,660	65,314	341,200
Grand total, San Francisco region.....	1,236,847	1,188,648	730,492	1,302,033	1,411,470	1,370,639	1,631,496	4,724,355	9,393,661	10,314,781	9,755,926	5,368,107	48,381,449

<sup>1</sup> See Table 13 for origin record of shipments and importations of fresh fish.

TABLE 35—Cont'd.

TABLE 36  
Commercial Fish Landings in the Monterey Region During 1949

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
<b>FISHING BOAT LANDINGS FROM CALIFORNIA WATERS</b>													
Anchoa													
Calicoe...	909	1,478	9,565	29,870	2,448	40,000		2,000	100,853	330	1,114,284	183,178	1,482,758
Dab...			157	905	190	121	311	230	8	417	3,313	2,602	10,411
Hake...			2,028	1,501	201	113	534	711	2,260	4,400	1,141	2,543	22,490
Hake, California...			12,533	20,083	5,284	1,971	12,161	14,970	1,841	185	881	5,655	63,978
Herring, Pacific...	9,783	12,500	14,509	49,149	17,311	17,180	15,353	7,941	16,981	25,157	29,454	18,019	100,131
Kingfish...	2,924	10,454	14,509	49,149	17,311	17,180	15,353	7,941	16,981	25,157	29,454	18,019	210,672
Lingcod...			10,850	4,541	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	22,000
Mackerel, jack...					9,709	1,503	3,516	1,089	3,520	1,611,192	1,239,364	565,088	612,579
Mackerel, pacific...						399	13,350	4,316	1,701	31,643	165	61,088	119,968
Petrale sole...	561	499	2,146	19,878	11	2,014	11	2,174	11	1,227	1,854	1,227	32,023
Porgy, California...	291	567	751	50,127	7,300	925	58	58	58	157	62,765	2,000	
Rockfish...	165,607	130,210	117,503	91,186	65,631	91,291	95,284	115,376	61,184	121,795	35,607	233,453	1,347,267
Sablefish...	27,907	34,655	19,928	25,185	64,431	31,102	26,827	30,395	20,084	50,199	8,530	19,890	329,210
Salmon...						42,698	6,061	11,981	11,981	11,981	11,981	11,981	11,981
Sand dab...	4,066	2,786	4,162	9,607	7,906	11,881	9,963	14,023	17,197	22,161	2,362	4,857	109,988
Sawfish...	100,600	77,607	77,607	8,497,128	400,000	2,201	811,912	29,000	93,120,147	75,220,269	37,090	22,910,147	282,200,000
Sea lamp, white...	131	49	24	18		42	145	45			300	33,827	33,827
Seaduck, greenling...	13	100										698,230	
Shark...	127,471	134,469	20,120	17,930	26,665	33,020	11,603	68	1,000	563	33,827	33,827	270
Skate...	9,077	3,666	4,616	1,216	1,105	1,584	601	68	3,100	6,070	420	530	35,433
Smelt...			3,756	2,390	2,412	2,531	3,511	18,445	8,974	21,974	8,434	11,369	116,742
Sole...	21,754	34,403	42,290	63,591	47,292	40,214	44,036	88,205	92,091	22,091	20,000	15,103	270,623
Swordfish, broadbill...										270			
Tuna...			10	14	135	366	27	115	151	2,985	1,041	27,861	5,135,396
Turtle...										450	2,181		2,601
Whitetail...												472	
Miscellaneous fish...	12	97				82	75	118	40	245	790	7	1,963

TABLE 36  
Commercial Fish Landings in the Monterey Region During 1949

Crustacean:														
Crab.....	3,849	3,376	5,093	3,428	1,504	378	560	187	24	13	3,888	2,299	24,536	
Prawn.....	427	600	378	300	932	17	.....	.....	.....	.....	278	835	9,362	
Mollusks:														
Absalone.....	680	649	600	800	4,551	12,250	27,601	27,322	1,829	1,050	1,200	75,503		
Clam, paper.....	70	740	820	620	50	50	50	50	50	180	120	6,000		
Mussel.....	3,112	4,112	4,112	4,112	843	2,188	2,188	2,188	2,188	2,188	2,188	2,188	25,608	
Oyster.....	3,255	3,255	3,255	3,255	3,255	3,255	3,255	3,255	3,255	3,255	3,255	3,255	2,304	
Squid.....	142,335	1,890	495,261	523,923	214,356	367,962	3,853,492	218,870	65,939	162,010	750,250	637,830	6,816,004	
Total pounds.....	638,630	401,904	817,219	1,888,095	4,061,504	1,115,658	4,453,444	29,331,066	98,807,146	78,800,607	39,738,439	24,644,655	284,766,797	
Fishing boat landings from waters west of the international boundary:														
Tuna, bluefin.....	7,798	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7,798		
Total pounds.....	7,798	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7,798		
Grand totals, Monterey region.....	638,630	409,697	817,319	1,888,095	4,061,504	1,115,658	4,453,444	29,331,066	98,807,146	78,800,607	39,738,439	24,644,655	284,774,590	

TABLE 36—Cont'd.

TABLE 37

Commercial Fish Landings in the Santa Barbara Region During 1949

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds	DIVISIONS OF FISH AND GAME
Fishing boat landings from California waters:														
Angler.....	154			8,152		97,000	30,700	35,670	21,440		17,833		451,619	
Batrachoids.....	10,131	800	762	400	31	82	11	28	3,750	9,241	1,117	26,479		
Basslets.....	198										304	60	600	
Cod.....	5	22		146	166	20	253	48	20		155	914	3,151	
Flounder, California.....	279	23	30	166	173	604	560	88		32	669	493	2,403	
Herring, California.....	36,218	35,418	33,671	26,000	64,250	81,000	44,413	34,805	30,280	21,882	35,560	26,120	490,222	
Kingfish.....	10	299					42				160	136	20	76
Lingcod.....	1,172	334	397	4,114	8,512	5,004	3,105	1,157	730		3,333	5,211	31,770	
Mackerel, California.....	1,780										160	136	20	76
Mackerel, Pacific.....	60,276						302	993	68,763	78,290	664,100	191,730	176,696	2,820,522
Perch.....	4,001	212		127							160	136	20	76
Rockfish.....	9,094	10,322	9,910	13,790	19,745	16,714	19,953	197	301	883	200	1,243	19,918	
Sardines.....							3,045	5,525			160	136	20	76
Salmon.....							3,045	5,525			160	136	20	76
Sand dab.....	4,411	699	2,157	45	671	159	653	156	121	311	62	1	4,911	
Sole.....	2,980,010					900	24,180	35,040	3,626,110	2,858,420	6,968,920	16,322,080		
Sculpin.....	59	255	65	37	632	140			34	35	222	877	7,863	
Sea bass, black.....	22	22	20	20							200	200	400	
Sea bass, white.....	1,200	4,126	40,888	16,278	21,227	20,427	31,412	44,422	18,310	104,917	62,291	6,682	375,694	
Shark.....	4,315	22,772	12,381	31,400	37,400	27,000	17,858	4,272	5,217	5,000	10,471	19,179		
Skate.....	231	231	421	832	1,006	395	358	216	522	294	921	7,667		
Skatelet.....	280	64	731	500	396	111	236	236	194	494	321	4,479		
Swordfish.....	2	393	53	158	158	158	158	158	158	158	158	158	158	
Swordbill.....	40,396	65,493	92,927	88,180	57,102	69,501	71,557	617	5,276	22,024	9,742	5,122	620,632	
Swordbill, broadbill.....											21,339	385,000	4,000	
Tuna, albacore.....	3,043	694			654	384	10	616	1,101	555	73		\$15	7,745
Turbot.....											257,737	344		257,737
Whiting, ocean.....											600	296	14,495	
Miscellaneous fish.....	1,399	2,907	2,070	2,063	2,969	2,761	1,182	308	1,177	322	600	296	14,495	

TABLE 37  
Commercial Fish Landings in the Santa Barbara Region During 1949

<b>Crustacean:</b>												
Crab.....	1,489	1,681	2,854	3,081	3,456	3,584	6,101	2,885	.....	10,748	1,710	1,322
Lobster, spiny.....	14,251	15,739	4,109	.....	.....	.....	.....	.....	.....	60,356	60,333	204,036
<b>Mollusk:</b>												
Ahalone.....	99,405	22,634	265,279	439,157	117,104	212,715	260,746	91,600	172,017	145,740	311,790	2,035,561
Oyster.....	45	76	79	667	79	137	89	212	29	29	.....	3,586
Oyster, Pacific.....	15,000	14,580	18,260	8,220	7,620	12,180	7,800	11,760	8,340	6,006	6,240	7,174
Squid.....	.....	.....	.....	561	.....	.....	.....	.....	.....	191	.....	732
Total pounds.....	4,997,594	179,131	248,422	474,863	667,603	467,563	732,222	622,916	699,431	4,913,444	3,467,128	7,562,478
Fishing boat landings from waters south of the international boundary: Halibut, California.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7,154	.....	7,154
Total pounds.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7,154	.....	7,154
Grand totals Santa Barbara region.....	4,997,594	179,131	248,422	474,863	667,603	467,563	732,222	622,916	699,431	4,913,444	3,474,232	7,562,478
												24,979,949

TABLE 37—*Cont'd.*

TABLE 38  
Commercial Fish Landings in the Los Angeles Region During 1949

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds	
<b>Fishing boat landings from California waters</b>														
Achovary.....	49,380	42,335	124,601	273,680	180,017	206,377	51,425	86,628	82,602	9,255	4,270	23,127	1,133,267	
Barracuda.....	75	5,977	30,771	40,713	144,284	208,470	81,715	14,604	1,885	2,024	76	5,160	446,174	
Bass, yellow.....	55	749	749	749	588	6,762	1,715	40,994	23,742	-----	-----	83,573	83,573	
Catfish.....	4,169	8,270	1,582	7,320	9,500	20,000	-----	-----	22,808	-----	-----	71,250	71,250	
Frigate fish.....	351	114	114	394	1,491	1,491	14	44	1,247	412	-----	2,207	2,207	
Flying fish.....	351	114	114	14	10,645	14,850	3,180	3,912	1,247	412	-----	31,260	31,260	
Hallibut, California.....	2,222	124,111	79,198	42,125	12,125	7,229	2,222	1,247	1,247	11,247	1,247	-----	321,212	
King mackerel.....	5,846	24,077	56,941	74,198	54,698	68,016	167,729	23,291	15,533	7,993	12,728	6,047	533,205	
Lionfish.....	287	616	1,582	294	539	907	36	44	225	118	294	417	5,149	
Mackerel, California.....	4,677	3,025,461	8,416,531	1,218,000	581,500	159,000	2,692,500	1,800,000	4,800,000	14,640	2,281,000	1,392,417	42,695	42,695
Mackerel, Pacific.....	232,291	5,810	176,056	93,646	212,217	1,122,161	5,122,718	93,010,000	12,638,807	6,400,338	1,905,262	6,400,338	48,517,496	48,517,496
Mullet.....	-----	9,910	1,945	8,813	11,808	-----	-----	-----	-----	4,062	-----	36,171	36,171	
Pacific salmon.....	5,415	19,950	30,000	11,081	2,100	2,100	1,411	2,265	2,237	1,544	1,544	4,672	102,784	
Pompano, California.....	1,190	5,110	4,358	2,277	4,733	1,872	508	1,543	1,038	1,658	2,648	1,983	26,497	26,497
Rockfish.....	1,131	1,131	1,131	1,131	1,131	1,130	21,121	1,380	4,219	3,919	3,919	3,919	3,978	3,978
Rockfish.....	607,15	72,369	92,567	79,371	66,934	50,312	3,131	8,956	14,220	30,327	44,331	47,076	870,730	870,730
Sabinefish.....	13,911	22,594	19,291	13,189	1,879	199	145	463	215	817	2,092	886	75,533	75,533
Sand tiger.....	300	3,121	1,121	1,121	1,121	1,121	11	11	11	11	11	11	4,523	4,523
Sardine.....	30,313,048	285,070	12,225	43,745	1,037,520	48,700	107,029	408,950	223,678	157,775,853	36,938,731	55,674,813	314,980,225	314,980,225
Solefish.....	77	7,733	10,700	12,225	7,600	18,700	17,297	11,125	1,037,520	48,700	107,029	408,950	13,025	13,025
Sea bass, black.....	196	54	55	441	431	997	1,769	1,769	1,769	1,769	214	214	6,018	6,018
Sea bass, white.....	984	1,797	7,943	25,103	94,428	117,745	34,588	30,455	33,363	16,774	1,418	1,134	369,707	369,707
Shark.....	2,275	4,575	32,245	46,450	159,000	31,648	15,203	15,203	15,203	15,203	15,203	15,203	31,220	31,220
Sheepshead.....	1,484	3,109	454	242	876	5,017	288	1,109	789	3,532	13,603	6,277	31,368	31,368
Skate.....	983	1,304	2,001	3,393	2,785	2,808	461	186	942	942	1,528	1,528	15,473	15,473
Snapper.....	20,182	18,218	20,212	12,225	4,744	7,224	7,100	6,036	15,700	7,410	14,900	14,900	116,666	116,666
Soles.....	74	331	348	1,637	1,349	874	309	11	221	15	39	945	6,123	6,123
Stickleback.....	-----	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047	1,047
Swallowfish, brachilli.....	-----	488	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	3,654	3,654
Tuna, albacore.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	3,445,481	3,445,481
Tuna, skipjack.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	5,426,479	5,426,479
Tuna, yellowfin.....	1,193	1,301	62	111	150	99	142	225	225	1,131	299	299	15,289	15,289
Whiting.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	4,477	4,477
Yellowtail.....	-----	-----	-----	817	1,539	4,693	1,155	442	25	200	3,086	2,335	9,161	9,161
Miscellaneous fish.....	1,433	1,647	3,647	1,797	5,579	5,568	469	697	941	737	1,682	15,317	39,459	39,459

INDEX OF FISH AND GAME

TABLE 38  
Commercial Fish Landings in the Los Angeles Region During 1949

	COMMERCIAL FISH CATCH OF CALIFORNIA											
Cephalopods:												
Lobster, spiny.....	32,453	31,397	7,762	2,355	2,279	2,440	2,814	449	1,310	200,149	553	
Mollusks:												
Absididae.....	24,603	60,431	194,479	249,250	89,781	117,739	134,171	131,414	101,425	134,323	95,472	
Cuttle, cockle.....	1	68	150	75	506	33	183				1,320,178	
Murex.....	339	698	230								12	
Octopus.....	67	177	230								1,250	
Squid.....	31,329	3,155	4,527								1,060	
Total pounds.....	35,581,645	3,648,151	4,227,537	2,229,488	2,737,409	2,680,217	10,731,153	16,563,408	21,415,270	184,392,277	47,105,769	
Fishing boat landings from waters south of the state boundary:												
Tuna, albacore.....							1,532	1,097			2,629	
Total pounds.....							1,532	1,097			2,629	
Fishing boat landings from waters north of the state boundary:												
Barnacles.....	43,098	294,062	131,030	182,349	34,721	27,289	105,819	163,381	94,902	62,346	134	
Bivalves.....	1	1,041	67	67	25,711	73,839	114,053	20,616	14,016	1,352	1,243,797	
Cabrits.....	20,552	11,261	30,622	18,173	4,547	10,225	53,281	2,456	6,007	8,172	24,490	
Crayfish.....			111								111	
Grouper.....	10,417	1,019	16,749	6,598	1,041	23,593	48,251	207	8,062	8,185	51,184	
Haddock, California.....			126		25	11,918	365	21,531			14,460	
Lingcod.....											750	
Rock fish.....	233	3,651	3,727	3,881	1,753		2,406		1,285	3,050	280	
Rough fish.....							181				12,331	
Sculpin.....											30,102	
Sea bass, black.....	1,505	3,679	5,405	3,846	3,777	218	19,105	1,425	5,118	10,017	5,983	
Sea bass, white.....	915	231	3,947	3,188	8,333	20,323	10,569	8,813	1,216	13,510	75,893	
Shad.....	43	300	2,058							370	14	
Sheepshead.....		50	310				570			418	6,248	
Serpentine, blacktail.....	243	9							313	100	357	
Swordfish, blacktail.....											9,471	
Tuna, albacore.....						1,101	2,106,504	2,141,721	999,162	340,607	74,013	
Tuna, bluefin.....	500,045	211,521	200,011	2,737	1,979	1,923	1,923	1,923	1,923	20,443	5,600,978	
Tuna, skipjack.....	392,451	211,637	1,346,508	978,352	2,221,538	2,477,142	1,427,221	3,785,621	5,217,032	650,704	2,649,286	2,016,900
Tuna, yellowfin.....	3,119,947	844,203	6,432,900	978,769	11,812,783	10,990,620	5,871,053	4,339,092	3,243,469	1,314,636	5,027,843	23,910,792
Whiting, ocean.....									60	41	70,041,133	
Yellowtail, ocean.....	12,987	48,932	56,672	45,997	95,955	349,277	429,856	2,630,972	1,257,999	35,876	42,699	1,535
Miscellaneous fish.....						51	63		123	647	8,276,926	
Total pounds.....	3,730,697	2,090,217	8,233,773	10,435,691	14,294,318	14,773,110	10,891,621	13,731,399	11,181,404	2,487,826	8,869,099	9,719,110
	17,211	8,138	2,165							1,540		24,354
												110,301,300

TABLE 38—Cont'd.

TABLE 38—Continued  
Commercial Fish Landings in the Los Angeles Region During 1949

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds	PERCENTAGE OF FISH AND AQUATIC	
Shipments and importations of fresh fish <sup>2</sup> :															
Cods.....							323						323		
Rock bass.....							588						588		
Sablefish.....	1,151	85,054		5,522		10,000							27,511		
Tuna.....	12,200	83,015	66,208	65,250	30,000	1,15	14,000	5,208	15,545	31,105	34,255		418,153		
Sea bass, black.....							420						420		
Sea bass, white.....							6,805	21,615					273		
Tuna, albacore.....	30,211	33,742											142,651		
Tuna, yellowfin.....							1,100	2,100	1,800	1,800	1,800		102,949		
Marineous fish.....	500	500											574	14.07%	
Total pounds.....	153,856	127,437	85,208	51,847	30,500	10,000	24,209	25,423	17,073	228,099	34,285	114,452	607,851		
Grand totals Los Angeles region.....	29,466,198	5,868,505	12,549,518	12,738,026	17,092,277	17,464,033	21,648,815	30,344,824	32,613,706	180,948,796	55,949,134	99,203,542	531,574,654		

<sup>1</sup> Includes 123,365 pounds of yellowfin tuna caught in the vicinity of the Hawaiian Islands.

<sup>2</sup> See Table 13 for origin record of shipments and importations of fresh fish.

TABLE 38  
Commercial Fish Landings in the Los Angeles Region During 1949

TABLE 39  
Commercial Fish Landings in the San Diego Region During 1949

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds	COMMERCIAL FISH CATCH OF CALIFORNIA
Fishing boat landings from California waters:														
Anchovy.....	1,900	27,294	1,633	14,938	160,716	72,745	814	4,455	.....	.....	4,240	.....	8,158	.....
Barracuda.....	6,479	.....	7,601	5,731	4	.....	.....	.....	.....	1,135	.....	23	200,713	.....
Bonito.....	523	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	15,035	900	.....
Carp.....	2,674	8,827	28,287	15,004	2,197	1,848	672	763	6,703	24,872	21,284	6,694	120,214	1,921
Halibut, California.....	2,274	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,200	.....
Herring, Pacific.....	1,741	2,287	28,287	15,004	2,197	1,848	672	763	6,703	24,872	21,284	6,694	120,214	1,921
Kingfish.....	58	70	664	2,044	2,512	2,624	3,257	3,257	3,257	1,743	2,287	42	1,521	1,521
Lingcod.....	204	848	1,187	1,217	167	2,900	189	558	455	1,833	1,141	90	5,277	5,277
Mackerel, jack.....	773	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	400,213	400,213
Mackerel, Pacific.....	233	78	969	13,344	30,722	177,452	17,050	45,474	47,297	49,599	43,054	20,313	20,313	20,313
Mullet.....	126,501	8,113	31,613	17,606	9,207	1,645	1,645	1,645	1,645	27,959	84,614	384,944	384,944	384,944
Rock fish.....	2,259	3,819	1,042	2,044	2,488	1,683	227	167	167	1,833	1,833	25	25	25
Rockfish.....	6,063	8,899	10,406	14,778	13,197	4,508	1,677	2,055	4,494	3,376	4,297	7,094	135	80,776
Sabalo.....	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Sardines.....	160	.....	.....	.....	565	.....	.....	211	8,523	2,012,000	2,350,978	700,000	4,708,978	4,708,978
Squid.....	388	797	3,122	10,208	813	255	35	713	3,675	1,817	540	22,296	22,296	22,296
Sea bass, black.....	273	198	1,045	1,045	1,045	1,045	204	204	204	204	204	204	204	204
Sea bass, white.....	2,259	4,776	12,066	1,785	14,728	48,607	7,814	17,853	6,713	10,957	6,412	2,736	137,658	137,658
Shark.....	1,023	2,344	1,406	16,499	19,996	10,975	4,207	11,372	12,811	8,497	3,728	92,526	92,526	92,526
Sherpahead.....	360	530	10	12	.....	.....	.....	3,977	3,977	3,977	3,977	3,977	3,977	3,977
Skate.....	3,189	9,512	1,471	679	375	280	147	.....	.....	2,205	93	1,067	12,039	12,039
Sole.....	50	279	23	679	375	1,024	4,311	4,127	1,433	1,206	407	114	1,911	15,632
Swordfish, longbill.....	.....	.....	.....	.....	.....	4,730	1,743	20,200	18,069	20,200	107,445	41,645	60,000	60,000
Tuna, albacore.....	.....	.....	.....	.....	.....	6,539	21,037	280	1,786	637	.....	27,076	27,076	27,076
Tuna, bluefin.....	.....	.....	.....	.....	.....	.....	2,621	3,911	3,911	3,911	3,911	3,911	3,911	3,911
Tuna, yellowfin.....	.....	.....	.....	.....	.....	.....	1,410	1,410	1,410	1,410	1,410	1,410	1,410	1,410
Whiting, ocean.....	626	114	150	43	202	124	257	257	212	212	212	1,030	2,074	2,074
Yellowtail.....	85	102	18	5	5	202	1,253	32	32	32	32	32	32	32
Miscellaneous fish.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	71,151	29,533	19,058	141,858	141,858
Cryptacanthidae:														
C. Trachypterus.....	3,645	9,735	4,516	.....	.....	.....	.....	.....	.....	71	161	374	612	612
Lutjanus, spiny.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

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TABLE 39  
Commercial Fish Landings in the San Diego Region During 1949

TABLE 39—Continued  
Commercial Fish Landings in the San Diego Region During 1949

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds	DIVISION OF FISH AND GAME	
<b>Fisher boat landings from California waters</b>															
Mola—Continued															
Albacore.....	597	1,075	1,601	2,004	4,002	3,078	4,277	11,197	14,350	18,000	22,043	23,294	106,412	310,013	
Clam.....	3,307	3,307	4,000	7,000	7,000	7,000	7,000	4,000	2,000	1,000	1,000	1,000	47,726	120,415	
Cod.....	395	655	90	175	290	650	650	650	275	90	104	40	4,139	150	
Musso.....	100	55						50					150		
Oceanus.....								70					150		
Total pounds.....	154,379	109,062	141,098	110,556	376,663	430,949	4,402,483	1,743,883	407,903	3,005,799	2,681,395	931,381	14,844,861		
<b>Fishing boat landings from water south of the international boundary</b>															
Barracuda.....	28,955	56,344	30,249	14,080	5,211	560	1,333	50,948	4,691	35,488	25,198	50,037	310,013		
Bass.....	3,128	12,660	10,100	29,239	1,152			18,710		5,401	3,468	27,142			
Catfish.....	2,746	7,307	2,450	1,185							1,791	3,188	17,432		
Grouper.....	5,790	2,000	1,185								1,120	1,120	4,127		
Hake.....	10,699	3,973	1,352								11,290	6,412	118,660		
Lingcod.....													2,778		
Rockfish.....	1,110	1,238	1,678	437	87	2,194		1,097		420	583	1,900	1,211	15,100	
Solefish.....													1,094		
Sea bass black.....	62	1,246	2,612	1,828	1,666	3,144	3,889	1,150		585	4,610	2,785	23,191		
Sea bass white.....	456	821	886	3,271	25,450	40,894	59,611	19,166	5,125	4,269	5,005	507,864			
Shark.....	145	145	145	1,076	60	265				1,242	1,242	1,242	5,494		
Shrimps.....	212	900								343	80	1,644	450		
Sierra.....													2,778		
Stargazer.....	114												114		
Swordfish broadbill.....													47,098		
Tuna, albacore.....													12,200,198		
Tuna, skipjack.....	1,091,945	1,519,372	2,450,416	3,362,826	3,413,816	3,782,018	2,671,256	7,460,395	12,200,198	0,933,424	1,196,117	1,000,344	51,443,189	66,002	
Tuna, yellowfin.....	7,081,400	4,000,000	13,240,000	13,240,000	13,240,000	13,240,000	13,240,000	13,240,000	13,240,000	13,240,000	13,240,000	13,240,000	13,240,000	13,240,000	
Whitefish, ocean.....	3,107	1,365	220	940				641		205	9,096	1,297	16,671		
Yellowtail.....	129,781	110,122	145,859	93,277	251,760	582,809	112,201	16,444	247,200	124,943	88,454	119,207	2,035,207		
Miscellaneous fish.....	62	817	159	200						500	443	2,279	5,032		

TABLE 39  
Commercial Fish Landings in the San Diego Region During 1949

## COMMERCIAL FISH CATCH OF CALIFORNIA

Crustacean:												
Lobster, spiny.....	127,858	200,927	58,141									
Total pounds.....	8,798,057	5,948,598	10,719,192	16,619,844	17,806,769	17,764,633	17,921,560	24,357,517	24,914,092	18,000,274	16,205,799	11,130,718
Shipments and importations of fresh fish <sup>a</sup> :												
Barracuda.....					2,771			4,771	8,073			
Bass, California.....	415					3,662		5,655	560	443	5,253	16,217
Bonito.....							12,468	15,145		53		6,157
Brook trout.....							28,149	30,007	27,412	10,371	6,728	27,713
Rockfish.....	567						1,517					16,000
Soldierfish.....							4,416	1,190	435	1,019	899	3,640
Sea bass, black.....							20		141	141	300	3,227
Sea bass, white.....											150	591
Shark.....												1,211
Sheepshead.....	1,778							785				141,359
Tuna, albacore.....				131,631			42,112					45,454
Tuna, yellowfin.....							4,000					44,625
Whiting.....	1,112							1,181	1,185	1,088	544	6,660
Yellowtail.....							21		33	299	1,749	1,748
Miscellaneous fish.....												261
Mollusk:												
Clam, Pismo.....												
Total pounds.....	3,875	131,021			4,038	490,011	53,354	61,902	53,476	47,299	141,230	451,804
Grand totals San Diego region.....	8,952,436	6,060,035	10,991,912	16,730,430	18,087,368	18,685,593	22,778,387	26,165,102	25,375,441	21,646,472	19,129,024	12,593,913
												207,205,013

<sup>a</sup> See Table 13 for origin record of shipments and importations of fresh fish.

TABLE 39—Cont'd.

TABLE 40  
Pounds and Value of Commercial Fish Landings in California During 1949<sup>1</sup>

Species	Eureka region		Sacramento region		San Francisco region		Monterey region		DIVERSITY OF FISH AND GAME
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	
Anchovy.....					216,474	\$4,091	1,482,725	\$17,496	
Barracuda.....									
Basslets.....	151	\$15			4,370	118	10,411	272	
Cabazon.....									
Carp.....	92,284	622	446,116	\$15,883	32,808	2,816			
Catfish.....			189,200	35,204	11,870	2,000			
Cowry.....									
Dongier.....	184,855	7,354	451	39	155,449	5,469	22,853	1,231	
Flying fish.....									
Grouper.....									
Hake.....					1,153	12	1,523	1	
Hake, California.....					9,021	1,631	97,820	18,310	
Hake, Pacific.....	86,153	19,679			81,194	13,775			
Haddock.....					4,037	14	1,000	34	
Herring, Pacific.....	2,700	68	2,650	80	271,909	6,254	100,131	761	
Kingfish.....					5	14	210,571	11,519	
Lionfish.....					382,617	28,004	30,503	5,064	
Mackerel, jack.....									
Mackerel, king.....					3,000	65	4,179,518	92,768	
Mullet.....							238,811	4,113	
Perch.....	77,094	8,799			100,833	14,574	32,084	3,291	
Pike.....					651	68			
Pompano, California.....							62,765	20,813	
Rockfish.....							1,200	3	
Rockfish.....	3,350,524	119,077			531,071	34,755	1,847,567	101,876	
Sablefish.....	3,279,769	109,247			50,941	3,476	229,239	11,424	
Salmon.....	1,212,000	61,000	500,000	200,000	2,434,545	585,491	45,000	11,722	
Sand dab.....	140,764	7,095			451,895	23,091	109,988	7,149	
Sardines.....	18,843	622	2,036,800	44,942	31,042,063	832,823	262,573,382	4,663,331	
Solefish.....									
Sea bass, black.....									
Sea bass, white.....	670	173			8,718	1,693	55,054	9,000	

TABLE 40  
Pounds and Value of Commercial Fish Landings in California During 1949<sup>1</sup>

COMMERCIAL FISH CATCH OF CALIFORNIA							
Seabrook, greenling.....				352	14	284	18
Shad.....	147,245	193,712	733,255	46,564	571	29	
Shark.....					178,910	512,415	605,259
Shawl.....							11,496*
Silverside.....							
Skate.....	1,250	17		77,224	1,158	22,443	249
Smelt.....		1,250		1,250	1,250	1,250	6,170
Sole.....	13,867,181	579,288	233	4,504,053	235,984	720,633	43,454
Split-tail.....							
Stickleback.....							
Swordfish, broadbill.....				263	90	270	96
Tuna, albacore.....	2,111,470	437,344		1,500,000	231,000	5,135,200	904,257
Tuna, bluefin.....				222,705	36,716	7,730	1,214
Tuna, skipjack.....				32,575	54,180		
Tuna, yellowfin.....				336,518	54,180		
Turbot.....	4,627	192		89,629	3,223	2,661	104
Whiting.....	211,140	16,000		29,200	2,200	1,800	80
Whitefish, ocean.....							
Yellowtail.....							
Milkfish, ocean, India.....		1,750	190	57	10,453	1,246	1,061
Total pounds and value.....	33,802,917	\$3,006,388	4,819,012	\$500,501	48,301,449	\$2,922,508	284,774,500
							\$6,061,809

\* This table includes actual landings at California ports by the commercial fishing fleet as well as shipments from other states and foreign countries by truck, rail and ocean liner to California canneries and to the fresh fish dealers.

\* For regions north of Santa Barbara crab landings are market crab; in Santa Barbara Region both market and rock crab; in Los Angeles and San Diego Regions rock crab.

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TABLE 40—Cont'd.

TABLE 40—Continued

Pounds and Value of Commercial Fish Landings in California During 1949<sup>1</sup>

Species	Santa Barbara region		Los Angeles region		San Diego region		Total		DIVERSITY OF FISH AND GAME	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value		
Anchovy.....	481,510	\$7,513	1,123,367	\$96,716	8,188	\$858	3,022,273	\$56,104		
Barnacles.....	26,473	4,700	1,830,171	275,552	617,261	\$1,644	2,473,961	367,816		
Bonito.....	639	69	1,674,455	162,500	180,105	16,000	1,855,196	178,749		
Codfish.....	314	30					16,000	16,000		
Cabilla.....			192,961	26,011	17,432	1,823	210,393	27,898		
Carp.....			71,250	2,209	4,031	80	82,218	21,411		
Codfish.....							201,700	38,556		
Cowfish.....							111	10		
Dolphin.....			111	10						
Frigate.....			700	10						
Flying fish.....	1,181	183					355,273	18,000		
Grouper.....			34,269	2,652			34,369	2,652		
Hake.....			297,308	41,105	41,247	5,119	290,615	42,252		
Haddock, California.....	409,842	92,672	402,784	79,788	253,817	64,781	1,262,614	238,094		
Haddock, Pacific.....							107,241	33,147		
Herring, California.....							17,284	4,904		
Herring, Pacific.....							279,428	8,000		
Hopper.....	262	61	303,867	20,856	17,576	1,477	376,438	40,125		
Lingcod.....	31,772	3,272	5,454	490	8,615	888	1,653,961	128,587		
Mackerel, Jack.....	2,211,909	61,917	41,211	3,889	88,320	2,300	21,111,909	1,111,111		
Mackerel, King.....	166,745	3,569	49,917,666	1,237,170	470,215	20,979	51,771,273	1,288,892		
Mullet.....			18,817	3,003	354,998	23,074	391,161	26,157		
Perch.....	12,931	2,447	108,194	18,444	226,598	32,654	342,623	56,654		
Pike, Shiner.....							691	68		
Pompano, California.....							80,965	23,349		
Rockfish.....	15,915	2,175	129,658	19,069	46,203	7,389	220,579	29,558		
Rockfish.....							6,067,872	341,250		
Rohlfish.....	4,415	1,131	57,207	53,462	200,285	17,568	251,884	132,528		
Solefish.....	4,841	1,463	418,153	168,474	3,878	3,878	6,547,774	1,677,710		
Sand dab.....	8,688	507	3,925	1,443	8,754	1,275	722,151	27,275		
Sardine.....	16,820,000	294,000	314,880,000	5,200,000	8,754,000	50,814	633,884,000	10,756,000		
Sculpin.....	1,082	204	121,059	29,718	22,625	3,013	148,387	26,930		
Sea bass, Black.....	1,761	309	80,441	11,110	40,283	3,017	122,441	17,329		
Sea bass, White.....			75,753	15,115	130,321	347,906	61,260	1,112,305	201,935	

TABLE 40  
Pounds and Value of Commercial Fish Landings in California During 1949<sup>1</sup>

<sup>3</sup> This table includes actual landings at California ports by the commercial fishing fleet as well as shipments from other states and foreign countries by truck, rail and ocean liner to California canneries and to the fresh fish dealers.

TABLE 40—*Cont'd.*

TABLE 41  
*California Commercial Fish Landings—1949*  
 Values for Eureka Region, Indicating Leading Ports, Species and Pounds

		Value	Pounds
Eureka region totals.....		\$3,006,388	33,302,917
Eureka.....	Sole.....	\$387,306	9,273,111
	Albacore.....	246,309	1,622,894
	Crab.....	221,563	1,994,269
	Salmon.....	214,218	902,352
	Shark.....	108,449	82,433
	Rockfish.....	59,207	1,636,224
	Sablefish.....	48,680	570,962
	Lingcod.....	32,317	453,826
	Pacific halibut.....	16,180	70,140
	All other.....	17,241	291,203
	Totals.....	\$1,351,470	16,878,121
Fort Bragg (Noyo).....	Salmon.....	\$209,707	883,300
	Albacore.....	119,154	784,938
	Sole.....	54,930	1,315,283
	Sablefish.....	46,000	537,487
	Rockfish.....	33,622	929,383
	Lingcod.....	29,264	392,868
	Shark.....	24,116	15,331
	All other.....	8,463	123,427
	Totals.....	\$525,256	4,985,017
Crescent City.....	Crab.....	\$311,362	2,802,542
	Salmon.....	110,510	465,499
	Albacore.....	40,665	267,885
	Shark.....	16,563	12,590
	Sole.....	16,493	394,575
	Lingcod.....	9,467	127,079
	All other.....	17,996	265,773
	Totals.....	\$523,056	4,335,943
Fields Landing.....	Crab.....	\$173,677	1,563,252
	Sole.....	120,560	2,884,212
	Shark.....	44,584	33,880
	Rockfish.....	21,331	580,254
	Sablefish.....	14,017	163,747
	Salmon.....	10,910	45,956
	Lingcod.....	10,617	142,514
	Albacore.....	10,393	68,495
	All other.....	12,616	189,345
	Totals.....	\$418,710	5,680,664
Trinidad.....	Crab.....	\$96,800	871,283
	Salmon.....	8,887	37,436
	All other.....	160	1,187
	Totals.....	\$105,847	909,906
Shelter Cove.....	Salmon.....	\$42,333	178,321
	Albacore.....	6,995	46,082
	All other.....	421	5,916
	Totals.....	\$49,749	230,319
Point Arena.....	Salmon.....	\$21,016	88,526
	Albacore.....	3,704	24,401
	Lingcod.....	2,356	31,620
	All other.....	1,879	19,671
	Totals.....	\$28,955	164,218
All other ports.....	All other.....	\$3,345	118,729
	Totals.....	\$3,345	118,729

TABLE 41  
*California Commercial Fish Landings—1949*  
 Values for Eureka Region, Indicating Leading Ports, Species and Pounds

**TABLE 42**  
**California Commercial Fish Landings—1949**  
**Values for Sacramento Region, Indicating Leading Ports, Species and Pounds**

		Value	Pounds
Sacramento region totals.....		\$366,504	4,819,912
Pittsburg.....	Salmon.....	\$105,757	432,013
	Shad.....	49,721	657,442
	Catfish.....	20,344	106,514
	Carp.....	3,858	108,368
	All other.....	137	3,168
	Totals.....	\$170,817	1,307,505
Sacramento.....	Salmon.....	\$60,757	248,189
	Catfish.....	9,578	50,134
	Hardhead.....	2,080	7,825
	Shad.....	2,005	25,032
	All other.....	429	10,498
	Totals.....	\$74,817	341,678
Benicia.....	Sardine.....	\$32,076	1,822,500
	Salmon.....	13,622	55,647
	Shad.....	2,804	35,008
	All other.....	78	1,837
	Totals.....	\$48,580	1,914,987
Martinez.....	Salmon.....	\$34,677	141,654
	Sardine.....	12,566	714,000
	All other.....	1,430	17,936
	Totals.....	\$48,673	873,590
Stockton.....	Salmon.....	\$5,107	20,861
	Catfish.....	4,286	22,442
	Totals.....	\$9,393	43,303
Hill's Ferry.....	Carp.....	\$3,265	91,697
	Hardhead.....	267	1,006
	Totals.....	\$3,532	92,703
All other ports.....	Carp.....	\$8,347	234,460
	All other.....	2,315	11,686
	Totals.....	\$10,662	246,146

**TABLE 42**  
**California Commercial Fish Landings—1949**  
**Values for Sacramento Region, Indicating Leading Ports, Species and Pounds**

TABLE 43  
*California Commercial Fish Landings—1949*  
 Values for San Francisco Region, Indicating Leading Ports, Species and Pounds

		Value	Pounds
San Francisco region totals.....		\$2,922,598	48,361,449
San Francisco.....			
Shark.....	\$302,336	132,984	
Crab.....	306,443	2,424,389	
Sardine.....	293,688	17,203,490	
Sole.....	211,710	3,681,910	
Albacore.....	198,851	1,205,445	
Salmon.....	106,945	475,309	
Yellowfin tuna.....	54,480	336,918	
Bluefin tuna.....	36,746	222,705	
Shrimp.....	25,253	425,138	
Rockfish.....	22,156	332,168	
Smelt.....	20,686	273,986	
Sand dab.....	19,475	381,121	
Lingcod.....	18,029	264,078	
Perch.....	14,353	98,011	
Pacific halibut.....	11,972	65,206	
All other.....	31,377	\$19,173	
Totals.....	\$1,764,700	28,516,654	
Point Reyes.....			
Salmon.....	287,642	1,278,411	
Crab.....	46,637	365,965	
Sole.....	32,945	572,949	
Rockfish.....	9,426	141,323	
Albacore.....	8,961	58,375	
Lingcod.....	4,028	54,071	
Sand dab.....	2,531	55,798	
Shark.....	2,354	822	
All other.....	3,297	60,266	
Totals.....	\$398,141	2,590,980	
Bay (Bodega).....			
Shark.....	\$116,156	40,556	
Salmon.....	70,707	314,255	
Crab.....	65,280	516,459	
Albacore.....	14,804	96,440	
Sole.....	12,893	224,223	
Smelt.....	12,387	155,320	
Lingcod.....	4,865	65,399	
Rockfish.....	3,057	45,829	
All other.....	2,595	45,228	
Totals.....	\$302,744	1,506,606	
Richmond.....			
Sardine.....	\$203,910	11,994,705	
Shrimp.....	16,308	271,542	
Salmon.....	2,265	10,067	
All other.....	2,488	37,847	
Totals.....	\$224,971	12,317,161	
Princeton by the Sea (Halfmoon Bay).....			
Salmon.....	\$84,915	377,402	
Crab.....	33,212	257,908	
Albacore.....	8,416	54,827	
Sardine.....	7,781	457,700	
All other.....	9,112	72,131	
Totals.....	\$143,436	1,219,968	
Oakland.....			
Crab.....	\$27,330	216,222	
Catfish.....	1,977	10,194	
Sole.....	1,365	23,740	
Carp.....	1,176	16,664	
Shark.....	1,002	350	
All other.....	354	7,324	
Totals.....	\$33,204	274,494	
McNear's Point.....			
Sardine.....	\$27,146	1,596,840	
All other.....	1,103	30,275	
Totals.....	\$28,249	1,627,115	

TABLE 43  
*California Commercial Fish Landings—1949*  
 Values for San Francisco Region, Indicating Leading Ports, Species and Pounds

**TABLE 43—Continued**  
**California Commercial Fish Landings—1949**  
**Values for San Francisco Region, Indicating Leading Ports, Species and Pounds**

		Value	Pounds
Tomales Bay.....	Pacific oyster.....	\$10,486	89,857
	Totals.....	\$10,486	89,857
Drakes Bay.....	Eastern oyster.....	\$4,654	46,535
	Pacific oyster.....	2,567	21,995
	Totals.....	\$7,221	68,530
China Camp.....	Shrimp.....	\$5,206	87,646
	Totals.....	\$5,206	87,646
All other ports.....	All other.....	\$4,240	62,438
	Totals.....	\$4,240	62,438

**TABLE 43**  
**California Commercial Fish Landings—1949**  
**Values for San Francisco Region, Indicating Leading Ports, Species and Pounds**

		Value	Pounds
Monterey region totals.....		\$6,061,889	284,774,590
Monterey.....	Sardine.....	\$4,135,850	237,692,529
	Albacore.....	375,407	2,391,127
	Squid.....	181,973	6,815,464
	Jack mackerel.....	86,785	3,909,228
	Rockfish.....	75,370	996,956
	Salmon.....	59,946	238,925
	Anchovy.....	15,745	1,334,307
	Abalone.....	9,060	75,503
	California halibut.....	8,605	43,592
	Kingfish.....	8,581	151,604
	Sole.....	8,499	140,952
	Sablefish.....	6,475	186,608
	Lingcod.....	6,392	75,283
	All other.....	25,737	547,674
	Totals.....	\$5,004,425	254,599,752
Moss Landing.....	Albacore.....	\$381,842	2,432,114
	Sardine.....	376,227	21,622,266
	Shark.....	10,751	568,816
	White sea bass.....	7,136	41,975
	Salmon.....	6,903	27,511
	Jack mackerel.....	5,906	270,100
	All other.....	6,234	163,158
	Totals.....	\$795,089	25,125,940
Santa Cruz.....	Sardine.....	\$53,254	3,060,587
	Salmon.....	50,450	201,075
	Albacore.....	47,438	302,155
	Sole.....	34,752	576,313
	Rockfish.....	26,470	350,136
	California pompano.....	19,288	58,187
	California halibut.....	9,463	47,938
	Sablefish.....	4,944	142,482
	All other.....	15,152	294,159
	Totals.....	\$261,211	5,033,012
All other ports.....	All other.....	\$1,144	15,886
	Totals.....	\$1,144	15,886

**TABLE 44**  
**California Commercial Fish Landings—1949**  
**Values for Monterey Region, Indicating Leading Ports, Species and Pounds**

TABLE 45  
*California Commercial Fish Landings—1949*  
*Values for Santa Barbara Region, Indicating Leading Ports, Species and Pounds*

		Value	Pounds
Santa Barbara region totals.....		\$1,076,814	24,979,949
Port Hueneme.....	Sardine.....	\$252,307	14,174,530
	Jack mackerel.....	64,137	2,694,822
	White sea bass.....	40,790	194,518
	Shark.....	9,756	43,984
	Anchovy.....	7,418	475,516
	California halibut.....	4,033	21,730
	All other.....	10,975	209,905
	Totals.....	\$389,416	17,815,005
Santa Barbara.....	California halibut.....	\$78,672	423,882
	Abalone.....	66,007	519,330
	Spiny lobster.....	49,307	190,227
	Shark.....	28,134	126,345
	White sea bass.....	23,715	113,089
	Sardine.....	14,026	788,000
	Sole.....	12,271	211,927
	Broadbill swordfish.....	6,409	15,605
	All other.....	10,751	94,481
	Totals.....	\$289,292	2,483,386
Morro Bay.....	Abalone.....	\$139,063	1,094,120
	Albacore.....	79,111	510,726
	Sardine.....	10,199	572,960
	Pacific oyster.....	8,691	123,282
	Rockfish.....	4,838	45,471
	All other.....	7,326	167,261
	Totals.....	\$249,228	2,513,820
Avila.....	Abalone.....	\$51,423	404,593
	Sole.....	23,972	414,030
	Sardine.....	17,561	986,590
	White sea bass.....	14,030	66,906
	Albacore.....	8,803	56,832
	California halibut.....	5,919	31,892
	Rockfish.....	5,385	50,611
	All other.....	6,975	65,282
	Totals.....	\$134,068	2,076,729
All other ports.....	All other.....	\$14,810	91,009
	Totals.....	\$14,810	91,009

TABLE 45  
*California Commercial Fish Landings—1949*  
*Values for Santa Barbara Region, Indicating Leading Ports, Species and Pounds*

TABLE 46  
*California Commercial Fish Landings—1949*  
*Values for Los Angeles Region, Indicating Leading Ports, Species and Pounds*

		Value	Pounds
Los Angeles region totals.....		\$26,824,770	531,874,484
Terminal Island.....	Yellowfin tuna.....	\$9,062,431	55,734,507
	Sardine.....	3,804,409	227,808,942
	Skipjack tuna.....	2,695,201	20,524,444
	Albacore.....	1,356,058	7,298,480
	Jack mackerel.....	615,133	28,610,814
	Pacific mackerel.....	457,230	17,791,062
	Bluefin tuna.....	372,780	2,295,442
	Yellowtail.....	344,205	3,701,132
	Bonito.....	117,818	1,213,677
	Anchovy.....	259	10,968
	Totals.....	\$19,128,554	364,986,588
Long Beach.....	Yellowfin tuna.....	\$1,621,702	9,972,587
	Sardine.....	810,043	48,626,257
	Skipjack tuna.....	318,193	2,177,913
	Pacific mackerel.....	206,420	8,031,910
	Jack mackerel.....	154,488	7,185,378
	Albacore.....	145,307	782,060
	Yellowtail.....	117,433	1,262,724
	Bluefin tuna.....	99,504	612,711
	Bonito.....	39,719	409,054
	Spiny lobster.....	10,721	30,833
	All other.....	11,894	164,979
	Totals.....	\$3,537,421	79,256,386
Wilmington.....	Yellowfin tuna.....	\$747,843	4,598,051
	Sardine.....	481,040	28,804,805
	Skipjack tuna.....	177,163	1,212,614
	Jack mackerel.....	155,434	7,229,479
	Pacific mackerel.....	89,924	3,498,987
	Bluefin tuna.....	70,668	435,147
	Albacore.....	61,710	332,130
	Kingfish.....	9,389	188,535
	All other.....	2,332	43,824
	Totals.....	\$1,795,303	46,343,572
San Pedro.....	Barracuda.....	\$247,799	1,628,115
	White sea bass.....	122,159	548,288
	Bluefin tuna.....	114,957	707,861
	Spiny lobster.....	70,492	202,738
	California halibut.....	53,087	267,983
	Pacific mackerel.....	44,595	1,735,208
	Grouper.....	43,526	245,770
	Rockfish.....	38,998	417,089
	Abalone.....	38,294	432,217
	Albacore.....	29,896	160,903
	Shark.....	26,491	129,794
	Scallop.....	25,159	186,643
	Yellowtail.....	24,939	269,636
	Broadbill swordfish.....	22,515	50,881
	Sculpin.....	20,089	104,909
	Perch.....	15,464	81,732
	Jack mackerel.....	14,898	602,937
	Rock bass.....	14,863	100,018
	Kingfish.....	12,272	246,426
	Sardine.....	11,748	703,478
	Black sea bass.....	10,154	72,220
	All other.....	40,981	576,172
	Totals.....	\$1,043,477	9,559,768

TABLE 46  
*California Commercial Fish Landings—1949*  
*Values for Los Angeles Region, Indicating Leading Ports, Species and Pounds*

TABLE 46—Continued  
*California Commercial Fish Landings—1949*  
 Values for Los Angeles Region, Indicating Leading Ports, Species and Pounds

		Value	Pounds
Newport Beach.....	Pacific mackerel.....	\$455,481	17,723,017
	Albacore.....	127,522	686,337
	Sardine.....	119,310	7,144,285
	Abalone.....	48,072	542,799
	Spiny lobster.....	31,055	1,845
	Shark.....	27,450	134,491
	Broadbill swordfish.....	24,823	55,360
	Baracuda.....	15,973	104,951
	California halibut.....	10,604	53,529
	Jack mackerel.....	10,393	483,395
	White sea bass.....	9,841	44,168
	All other.....	28,721	429,369
	Total.....	\$910,125	27,493,326
Los Angeles.....	Salmon <sup>1</sup> .....	\$168,362	417,050
	Spiny lobster.....	14,583	41,655
	All other.....	9,596	131,912
	Total.....	\$192,471	591,517
Santa Monica.....	Spiny lobster.....	\$41,580	119,587
	Sardine.....	31,621	1,793,458
	California halibut.....	14,008	70,710
	Anchovy.....	13,257	561,721
	Shark.....	10,366	50,788
	Baracuda.....	7,832	51,456
	All other.....	32,427	401,825
	Total.....	\$151,091	3,049,545
Redondo Beach.....	Rockfish.....	\$4,690	50,163
	Spiny lobster.....	4,184	12,034
	Perch.....	3,087	16,318
	Abalone.....	2,591	29,243
	All other.....	9,602	94,875
	Total.....	\$24,154	202,633
Avalon.....	Abalone.....	\$15,324	172,960
	Broadbill swordfish.....	3,101	6,915
	All other.....	3,967	27,509
	Total.....	\$22,392	207,384
Corona Del Mar.....	Abalone.....	\$8,058	90,945
	Total.....	\$8,058	90,945
San Juan Capistrano.....	Abalone.....	\$4,929	55,641
	Total.....	\$4,929	55,641
All other ports.....	All other.....	\$6,795	37,179
	Total.....	\$6,795	37,179

<sup>1</sup> Salmon shipments. See Table 13.

TABLE 46  
*California Commercial Fish Landings—1949*  
 Values for Los Angeles Region, Indicating Leading Ports, Species and Pounds

TABLE 47  
*California Commercial Fish Landings—1949*  
*Values for San Diego Region, Indicating Leading Ports, Species and Pounds*

		Value	Pounds
San Diego region totals.....		\$32,967,858	207,205,013
San Diego.....	Yellowfin tuna.....	\$16,329,420	99,813,083
	Skipjack tuna.....	7,146,904	47,869,420
	Albacore.....	3,636,644	18,478,880
	Spiny lobster.....	445,648	1,041,721
	Yellowtail.....	139,085	1,454,861
	Barracuda.....	84,415	616,152
	Swordfish.....	59,314	5,774,016
	White fish.....	57,682	324,312
	California halibut.....	44,004	249,174
	Broadbill swordfish.....	27,851	63,718
	Pacific mackerel.....	20,766	445,619
	Rockfish.....	16,085	183,185
	Bonito.....	14,456	143,844
	Bluefin tuna.....	13,956	93,042
	Clam.....	7,934	38,948
	Rock bass.....	6,682	62,105
	Shark.....	6,668	87,507
	Abalone.....	6,574	72,885
	All other.....	35,882	972,363
	Total.....	\$28,099,929	177,714,115
Point Loma.....	Yellowfin tuna.....	\$2,471,164	15,104,912
	Albacore.....	1,279,385	6,500,938
	Skipjack tuna.....	1,011,490	6,774,880
	Yellowtail.....	55,216	577,573
	All other.....	1,737	16,943
	Total.....	\$4,818,992	28,975,246
Salton Sea .....	Mullet.....	\$23,074	354,984
	Total.....	\$23,074	354,984
Encinitas.....	Spiny lobster.....	\$6,458	15,097
	All other.....	4,710	40,015
	Total.....	\$11,168	55,112
All other ports.....	All other.....	\$14,695	105,556
	Total.....	\$14,695	105,556

TABLE 47  
*California Commercial Fish Landings—1949*  
*Values for San Diego Region, Indicating Leading Ports, Species and Pounds*