

# **UC San Diego**

## **Fish Bulletin**

**Title**

Fish Bulletin 159. California Marine Fish Landings For 1971

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STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF FISH AND GAME  
FISH BULLETIN 159  
California Marine Fish Landings For 1971



by  
*M. S. Oliphant*  
and  
*Marine Fisheries Statistics Staff*  
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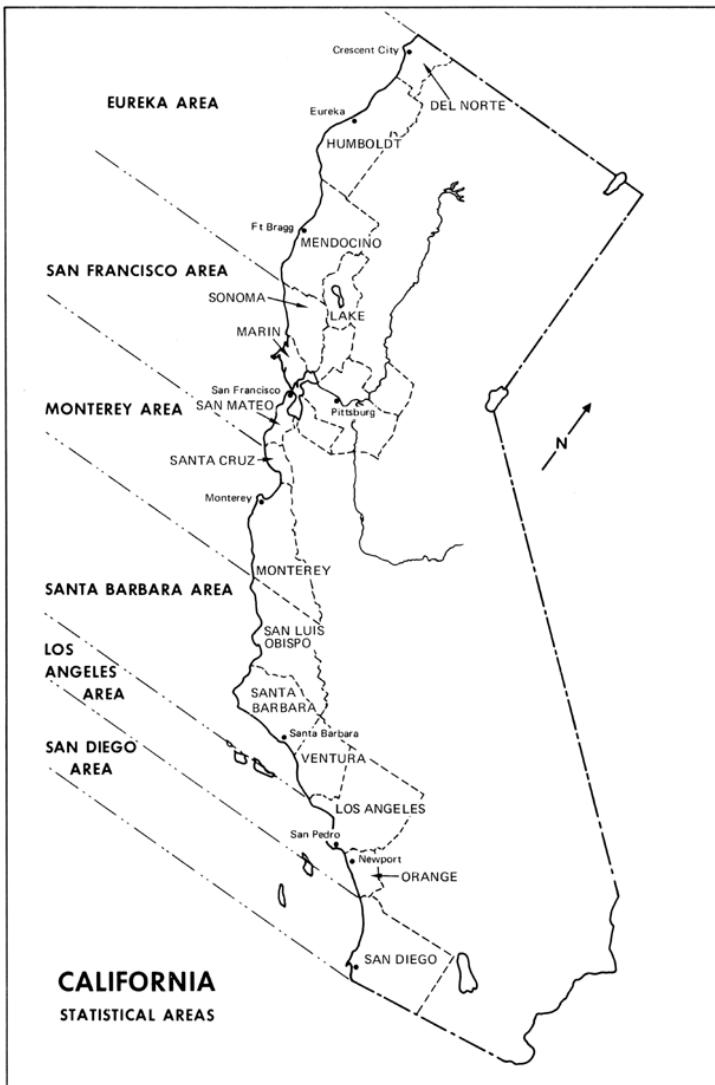


FIGURE 1. Geographical areas used to summarize California Fisheries statistics.

( 2 )

*FIGURE 1. Geographical areas used to summarize California Fisheries statistics.*

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## **1. FOREWORD**

Landing bulletins provide records of amounts and values of various living marine resources taken by California's commercial fisheries, and summarize catches made by the partyboat sportfishing industry. They also detail the small quantities of freshwater fish taken commercially in inland areas. These data provide the basic background for managing California's marine fishery resources. The published figures are of local, national, and international significance, and are used by fisheries scientists, legislators, educators, members of the fishing industry, and others interested in California fisheries.

This report for 1971 is the 31st in the series of landing bulletins. The first, published in 1929, contained the records of the 1926 and 1927 commercial fish landings.

California's fishery statistics are based on a system whereby fish dealers, processors, and partyboat operators send duplicate copies of their landing records to the Department. The statistical system and methods used to collect the records were fully described in Fish Bulletin 86, which reported the catch for 1950. In the intervening years, methods and equipment have been modified as conditions warranted, but the basic principles have remained unchanged.

Credit for this publication belongs to the Marine Fisheries Statistics Unit personnel who process the many documents necessary for its publication. Special acknowledgment is given to Marine Resources Region wardens and the clerks in field offices whose efforts help provide completeness of records. The cooperation of the many wholesale fish dealers and canners is appreciated.

## **2. EXPLANATION OF TABLES**

Tables in this bulletin summarize statistics of various fishery operations in California during 1971. Five types of activity are being reported this year: landings of commercial fishermen in California; imports of tuna from other states or foreign countries destined for processing in California; sport catches of the partyboat fleet; landings of inshore species used for bait; and catches of boats supplying live bait for sportfishing. In addition, the species composition of the 1971 ocean salmon landings is reported.

Statistics presented in this publication do not encompass all fishing activities in California since not all of these functions are reported. For example: sportfishing from private boats or from shore is not reported, nor is the quantity of fish imported for use in a fresh state compiled. Department biologists do sample some facets of the sport fishery, but since this is part of specific studies, most of the results are not reported here.

The Department annually publishes a circular which enumerates some fish products produced from the catch. The 1971 figures are contained in circular No. 46 "Statistical Report of Fresh, Canned, Cured and Manufactured Fishery Products for 1971" (Pinkas, 1972).

### **2.1. SOURCE OF DATA**

Data concerning each commercial landing, inshore bait delivery, and import are recorded on receipts by fish dealers or processors at the time of delivery. Copies of these documents are transmitted to the Department twice each month. For each transaction, the dealer is required to provide the species weight and price paid to the fishermen. The date of the transaction, the fisherman's name, the fishing boat registration number, and intended use of the fish (canning, fresh, etc.) also are required. In addition, type of gear used and the specific area where the fish were caught usually are reported.

Partyboat catch data are obtained from logs completed by the boat operator. The log for each trip indicates the number of each species taken, number of anglers, number of hours fished, and the specific area fished. The date, boat name, and boat registration number also are furnished. Copies of these records are sent to the Department monthly.

Operators of boats supplying live bait keep a voluntary daily log showing number of sets, species caught, area fished, and number of scoops of bait sold. Copies of these logs are furnished the Department monthly. While these records represent most live bait landings, the reported catch should be regarded as minimal.

Clerical personnel at field offices in Eureka, Menlo Park, Long Beach, and San Diego maintain contact with fish dealers and local Fish and Game Wardens to insure that the records are accurate and transmitted promptly. All data received by the Department are carefully edited for completeness and coded to facilitate processing. The information

then is punched into cards and summarized with electric tabulating machines.

## 2.2. STATISTICAL AREAS

California is divided into seven areas for the purpose of reporting fisheries statistics<sup>(Figure 1)</sup>. Each statistical area is named for a major port within its boundaries. Sacramento area landing statistics are incorporated with San Francisco totals in the tables.

## 2.3. SPECIES

The common and scientific names of species reported in 1971 are listed (Table 1). Some varieties are reported only collectively when, for economic or other reasons, a specific separation is not practical. A further combination of species is made in preparing the tables.

The "Miscellaneous (Animal Food)" category consists of a variety of low value species caught by trawling. Since it is impractical for dealers to report the many species separately, Department biologists periodically sample this catch to determine its species composition. Based on this sampling, the percentage and weight compositions of 1971 animal food landings are as follows:

<i>Species</i>	<i>Percent</i>	<i>Pounds</i>
Rockfish (15 species)	23.0	227,508
Sablefish	22.4	221,572
Dover sole	17.6	174,093
Pacific hake	11.3	111,775
English sole	6.3	62,317
Rex sole	5.8	57,372
Arrowtooth flounder	4.5	44,512
Twenty-one other species	9.1	90,014
	100.0	989,163

Salmon landings reported in the tables are for all species combined. However, biologists from the Department's Anadromous Fisheries Branch sample the commercial and sport salmon fisheries to determine species composition of catches and to obtain estimates of the unreported skiff catch. The sampling methods and results for 1952 through 1965 were detailed by Jensen and Swartzell (1967); since 1966, results have been presented annually in the landing bulletins.

## 2.4. CONDITION

Most fish and shellfish are landed in a round condition; however, some species, such as barracuda, salmon, and swordfish, are usually eviscerated or cleaned before being brought ashore. The condition of fish landed or shipped into the state cannot always be determined, so the tables represent summarized weights as reported to the Department without regard to condition.

Since 1963, oyster landings have been reported as packed weight rather than weight in the shell. Packed weight is estimated to be 15.5% of the live weight for Pacific oysters and 10.9% for eastern oysters.

Landings reported in measurements other than weight are equated to pounds using conversion factors determined by periodic sampling.

Factors used in 1971 were:

Abalone, red	50 pounds per dozen
Abalone, pink	25 pounds per dozen
Abalone, white	25 pounds per dozen
Abalone, green	35 pounds per dozen
Clam, Washington	7 pounds per dozen
Crab, market	2 pounds each
Live bait	12.5 pounds per scoop

## 2.5. VALUE

Value is computed from prices paid to fishermen. Area value figures are ascertained by summing the value of all individual landings in that area. The value for an individual port within an area is calculated from weights of each species landed at that port and the average price paid for the species in that area. When the price paid for an individual landing is not specified, the average price paid for the species in the area is used.

## 2.6. INSHORE BAIT

The inshore bait fishery takes several kinds of fish and invertebrates from bays, rivers, and intertidal regions. Records of this fishery have been published as a separate summary in landing bulletins since 1963. Conversion factors used for inshore bait for 1971 were as follows:

Crab, sand	0.041 pound per dozen
	4.5 pounds per gallon
Crab, shore	0.013 pound per dozen
Mud sucker	0.465 pound per dozen
Mussel	80.000 pounds per sack
Sculpin, staghorn	0.465 pound per dozen
Shrimp, ghost	0.082 pound per dozen

## 2.7. REFERENCES

Pinkas, Leo. 1972. Statistical report of fresh, canned, cured and manufactured fishery products for 1971. Calif. Dept. Fish and Game, Circular,

(46): 1-19.

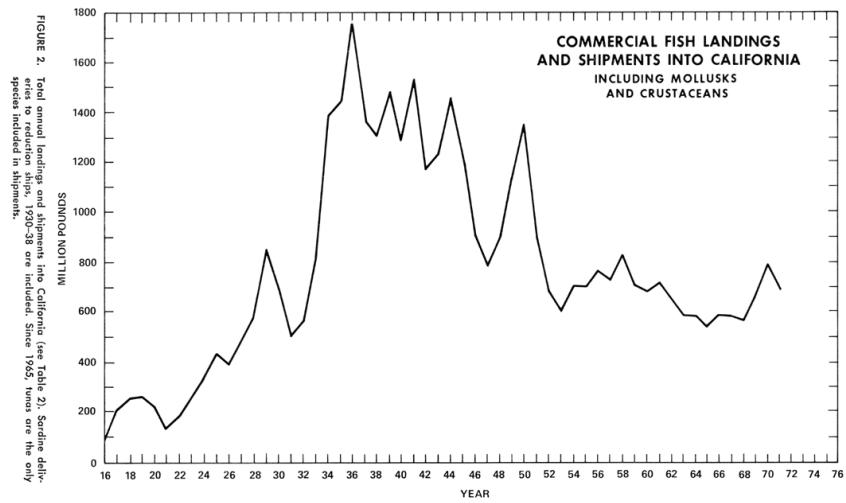
Jensen, Paul T., and Phillip G. Swartzell. 1967. California salmon landings 1952 through 1965. Calif. Dept. Fish and Game, Fish Bull., (135): 43-57.

## 3. TABLES

TABLE 1  
Common and Scientific Names of Fishes, Crustaceans, and Mollusks in the 1971 Catch

Common name	Scientific name	Common name	Scientific name
<b>FISHES</b>			
Anchovy	<i>Engraulis mordax</i>	Sargo	<i>Anisotremus davidsoni</i>
Barracuda, California	<i>Sphyraena argentea</i>	Scorpion	<i>Scorpaena guttata</i>
Bass, rock	<i>Paralabrax clathratus</i>	Sculpin, Pacific staghorn	<i>Lepidocottus armatus</i>
Kelp bass	<i>Paralabrax nebulosus</i>	Sea bass, giant	<i>Stereolepis gigas</i>
Sand bass	<i>Paralabrax maculatusfasciatus</i>	Seabass, white	<i>Cynoscion nobilis</i>
Spotted sand bass	<i>Paralabrax maculatusfasciatus</i>	Shark	
Blacksmith	<i>Chromis punctipinnis</i>	Basking	<i>Cetorhinus maximus</i>
Botto, Pacific	<i>Sarda chilensis</i>	Blenny	<i>Priolepis planifrons</i>
Calponia	<i>Scorpaenichthys marmoratus</i>	Bonito	<i>Jaurus oxyrinchus</i>
Cabrilla, spotted	<i>Epinephelus analogus</i>	Leopard	<i>Triakis semi fasciata</i>
Croaker		Pacific angel	<i>Squatina californica</i>
White	<i>Gymnophorus lineatus</i>	Soupfin	<i>Galeorhinus zyopterus</i>
Queenfish	<i>Seriphus politus</i>	Spiny dogfish	<i>Squalus acanthias</i>
Dolphinfish	<i>Coryphaena hippurus</i>	Thresher	<i>Alopias vulpinus</i>
Eel		Miscellaneous	Various species
California moray	<i>Gymnothorax mordax</i>	Sheepshead, California	<i>Pimelodotops pulchrum</i>
Wolf	<i>Anarrhichthys ocellatus</i>	Skate	
Flounder		Bat ray	<i>Myliobatis californica</i>
Arrowtooth	<i>Atheresthes stomias</i>	Big skate	<i>Raja binoculata</i>
Starry	<i>Platichthys stellatus</i>	California skate	<i>Raja inornata</i>
Miscellaneous	Various species	Longnose skate	<i>Raja rhina</i>
Flyingfish	<i>Cypselurus spp.</i>	Showdown guitarfish	<i>Rhinobatos productus</i>
Freshwater fish		Miscellaneous	Various species
Carp	<i>Cyprinus carpio</i>	Smelt	
Hardhead	<i>Mylopharodon conocephalus</i>	Jacksmelt	<i>Atherinopsis californiensis</i>
Hitch	<i>Lutjanus exilicauda</i>	Night smelt	<i>Spinachias starksi</i>
Sacramento blackfish	<i>Orthodon microlepidotus</i>	Surf smelt	<i>Hypomesus pretiosus</i>
Greenling, kelp	<i>Hexagrammos decagrammus</i>	Smelt, whitebait	<i>Alosomus elongatus</i>
Grouper	<i>Mycteroperca spp.</i>	Sole	<i>Spinachias starksi</i>
Hake, Pacific	<i>Merluccius productus</i>	Dover	<i>Microstomus pacificus</i>
Halfmoon	<i>Medialuna californiensis</i>	English	<i>Parophrys setulus</i>
Halibut		Petrale	<i>Eopsetta jordani</i>
California	<i>Paralichthys californicus</i>	Rock	<i>Gymnophorus eschirus</i>
Pacific	<i>Hippoglossus stenolepis</i>	Sand	<i>Leptopsetta bilineata</i>
Herring, Pacific	<i>Clupea harengus</i>	Butter	<i>Psettichthys melanostictus</i>
Killifish	<i>Fundulus parvipinnis</i>	Miscellaneous	<i>Isopeletta isolepis</i>
Lingcod	<i>Ophiodon elongatus</i>	Swordfish	<i>Xiphias gladius</i>
Mackerel		Tuna	
Jack	<i>Trachurus symmetricus</i>	Albacore	<i>Thunnus alalunga</i>
Pacific	<i>Scomber japonicus</i>	Bigeye	<i>Thunnus obesus</i>
Mudskipper, longjaw	<i>Gillichthys mirabilis</i>	Bluefin	<i>Thunnus thynnus</i>
Opahye	<i>Girella nigricans</i>	Skipjack	<i>Euthynnus pelamis</i>
Pacific cod	<i>Gadus macrocephalus</i>	Yellowfin	<i>Thunnus albacares</i>
Perch	Members of family Embiotocidae	Turbot	
Pompano, Pacific	<i>Peprilus simillimus</i>	Curfin	<i>Pleuronichthys decurrens</i>
Rockfish	Various species of <i>Sebastodes</i> and <i>Sebastolobus</i> spp.	Diamond	<i>Hypopsetta guttulata</i>
Sablefish	<i>Anoplopoma fimbria</i>	Hornhead	<i>Pleuronichthys verticalis</i>
Salmon	<i>Xenistius californiensis</i>	Miscellaneous	Various species
Salmon		Wahoo	<i>Acanthocybium solanderi</i>
King	<i>Oncorhynchus tshawytscha</i>	Whitefish, ocean	<i>Cavolinus princeps</i>
Pink	<i>Oncorhynchus gorbuscha</i>	Yellowtail, California	<i>Seriola dorsalis</i>
Silver	<i>Oncorhynchus kisutch</i>		
Sanddab	<i>Citharichthys sordidus</i>		
Sardine	<i>Sardinops sagax caeruleus</i>		
<b>CRUSTACEANS</b>			
Crab		Prawn	
Market	<i>Cancer magister</i>	Ridgeback	<i>Eusicyonia ingentis</i>
Rock	<i>Cancer productus</i>	Spot	<i>Pandalus platyceros</i>
	<i>Cancer antennarius</i>	Shrimp	
	<i>Cancer antennarius</i>	Bay	<i>Crangon franciscorum</i>
Sand	<i>Emerita analoga</i>		<i>Crangon nigricauda</i>
Shore	<i>Hemigrapsus virginensis</i>	Ghost	<i>Callianassa californicus</i>
Spider	<i>Pachygrapsus crassipes</i>	Ocean	<i>Pandalus jordani</i>
Crayfish	<i>Loxorhynchus sp.</i>	Red	<i>Hippolytoma californica</i>
Lobster, spiny	<i>Astacus troxbridgei</i>		
	<i>Panulirus interruptus</i>		
<b>ECHINODERMS</b>			
Sea star	<i>Pisaster spp.</i>	Sea urchin	<i>Strongylocentrotus spp.</i>
<b>MOLLUSKS</b>			
Abalone		Clam—continued	
Black	<i>Haliotis cracherodii</i>	Quahog	<i>Mercenaria mercenaria</i>
Green	<i>Haliotis fulgens</i>	Washington	<i>Saxidomus nuttalli</i>
Pink	<i>Haliotis corrugata</i>	Mussel	
Red	<i>Haliotis rufescens</i>	Bay	<i>Mytilus edulis</i>
Threaded	<i>Haliotis assimilis</i>	Rock	<i>Mytilus californianus</i>
White	<i>Haliotis sorenseni</i>	Octopus	<i>Octopus spp.</i>
Clam		Oyster	
Freshwater	<i>Corbicula fluminea</i>	Eastern	<i>Crassostrea virginica</i>
Knife	<i>Tagelus californianus</i>	Giant Pacific	<i>Crassostrea gigas</i>
Purple	<i>Sanguinolaria nuttalli</i>	Squid	<i>Loligo opalescens</i>

TABLE 1  
Common and Scientific Names of Fishes, Crustaceans, and Mollusks in the 1971 Catch



**FIGURE 2.** Total annual landings and shipments into California (see Table 2). Sardine deliveries to reduction ships, 1930–38 are included. Since 1965, tunas are the only species included in shipments.

**TABLE 2**  
**Total Annual Landings and Shipments Into California of Commercial Fish, Mollusks, and Crustaceans; Includes Sardine Deliveries to Reduction Ships During 1930 Through 1938**

Year	Thousands of pounds	Year	Thousands of pounds
1916.....	95,003	1946.....	919,822
1917.....	209,877	1947.....	795,499
1918.....	261,134	1948.....	900,467
1919.....	266,270	1949.....	1,135,339
1920.....	222,004	1950.....	1,366,676
1921.....	135,348	1951.....	904,114
1922.....	182,343	1952.....	694,996
1923.....	253,875	1953.....	618,919
1924.....	340,446	1954.....	713,410
1925.....	437,502	1955.....	710,713
1926.....	394,964	1956.....	772,551
1927.....	487,169	1957.....	738,590
1928.....	582,527	1958.....	802,619
1929.....	856,834	1959.....	713,423
1930.....	702,189	1960.....	694,663
1931.....	502,390	1961.....	725,253
1932.....	556,139	1962.....	663,107
1933.....	821,805	1963.....	592,899
1934.....	1,390,798	1964.....	591,131
1935.....	1,448,017	*1965.....	544,480
1936.....	1,764,900	1966.....	501,533
1937.....	1,362,984	1967.....	589,028
1938.....	1,310,596	1968.....	567,214
1939.....	1,486,535	1969.....	672,763
1940.....	1,297,518	1970.....	708,415
1941.....	1,528,892	1971.....	687,995
1942.....	1,173,414		
1943.....	1,234,049		
1944.....	1,459,456		
1945.....	1,216,501		

\* Beginning in 1965 only tuna shipments are recorded.

**TABLE 2**  
**Total Annual Landings and Shipments Into California of Commercial Fish, Mollusks, and Crustaceans; Includes Sardine Deliveries to Reduction Ships During 1930 Through 1938**

**TABLE 3**  
**Landings and Shipments of Leading Species Ranked by Pounds \***

1970				1971			
Species	Rank	Thousands of pounds	Thousands of dollars	Species	Rank	Thousands of pounds	Thousands of dollars
Yellowfin tuna.....	1	261,817	\$50,399	Yellowfin tuna.....	1	168,365	\$36,211
Anchovy.....	2	192,485	2,157	Skipjack tuna.....	2	154,942	30,570
Skipjack tuna.....	3	96,918	15,868	Anchovy.....	3	89,705	1,093
Albacore tuna.....	4	73,112	22,274	Albacore tuna.....	4	68,131	22,675
Jack Mackerel.....	5	47,746	1,881	Jack mackerel.....	5	59,883	2,416
Squid.....	6	24,591	.667	Squid.....	6	31,517	760
Market crab.....	7	15,414	3,946	Pacific bonito.....	7	20,269	1,841
Dover sole.....	8	15,161	1,233	Bluefin tuna.....	8	19,828	4,207
Rockfish.....	9	10,687	824	Dover sole.....	9	14,249	1,178
Bluefin tuna.....	10	9,531	1,803	Rockfish.....	10	11,169	942
Pacific bonito.....	11	9,192	.651	Market crab.....	11	9,662	2,821
Salmon.....	12	6,612	5,101	Salmon.....	12	8,117	4,757
Sablefish.....	13	4,428	319	Sablefish.....	13	4,424	290
Ocean shrimp.....	14	4,048	.567	Petrale sole.....	14	3,704	611
Petrale sole.....	15	3,416	.531	Ocean shrimp.....	15	3,081	400
English sole.....	16	3,282	.324	English sole.....	16	2,964	316
Abalone.....	17	2,901	.948	Abalone.....	17	2,945	953
Rex sole.....	18	1,741	.190	Lingcod.....	18	2,098	201
Lingcod.....	19	1,531	.139	Bigeye tuna.....	19	1,871	394
Swordfish.....	20	945	.534	Rex sole.....	20	1,468	169
All others.....	--	12,857	3,023	All others.....	--	9,603	2,658
Totals.....	--	798,415	\$113,379	Totals.....	--	687,995	\$115,463

\* Only the tunas are included in the shipments.

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

**TABLE 4**  
**Number of Licensed Commercial Fishermen**

Area of residence	License year*	
	1970-71	1971-72
Eureka.....	1,735	1,846
Sacramento.....	409	455
San Francisco.....	1,546	1,711
Monterey.....	712	686
Santa Barbara.....	751	871
Los Angeles.....	1,744	2,028
San Diego.....	1,386	1,652
Alaska, Washington and Oregon fishermen licensed in California.....	627	848
Mexican nationals licensed in California.....	19	26
Other.....	40	58
<b>Totals.....</b>	<b>8,969</b>	<b>10,181</b>

\* April 1 to March 31.

**TABLE 4**  
**Number of Licensed Commercial Fishermen**

**TABLE 5**  
**Number of Registered Fishing Boats by Length**

Length group in feet	License year*		Length group in feet	License year*	
	1970-71	1971-72		1970-71	1971-72
0-10.....	5	5	101-105.....	7	8
11-15.....	125	128	106-110.....	6	7
16-20.....	712	807	111-115.....	8	5
21-25.....	430	553	116-120.....	16	11
26-30.....	577	645	121-125.....	6	6
31-35.....	515	600	126-130.....	12	9
36-40.....	713	787	131-135.....	11	8
41-45.....	384	446	136-140.....	11	11
46-50.....	300	349	141-145.....	1	1
51-55.....	126	147	146-150.....	0	0
56-60.....	104	124	151-155.....	11	17
61-65.....	109	120	156-160.....	4	4
66-70.....	29	34	161-165.....	3	4
71-75.....	31	37	166-170.....	3	5
76-80.....	25	28	171-175.....	1	4
81-85.....	22	21	176-180.....	0	0
86-90.....	8	8	181 and over.....	6	9
91-95.....	8	7	Total.....	4,337†	4,962‡
96-100.....	8	7			

\* April 1 to March 31.

† The owners of 457 boats were issued fishing party licenses in 1970-71.

‡ The owners of 482 boats were issued fishing licenses in 1971-72.

**TABLE 5**  
**Number of Registered Fishing Boats by Length**

**TABLE 6**  
**Origin of Shipments Received for Processing in California During 1971 \***

Shipped from:	Species	Pounds shipped to each area		Total pounds
		Los Angeles	San Diego	
<b>Continental United States:</b>				
Tuna, skipjack.....	41,977	----	----	41,977
Tuna, skipjack, black.....	5,000	----	----	5,000
<b>Oregon, Washington, Canada and Alaska:</b>				
Tuna, albacore.....	3,011,440	-----	-----	3,011,440
Tuna, skipjack.....	-----	16,377	-----	16,377
Tuna, yellowfin.....	3,620	----	----	3,620
<b>Mexico and Central America:</b>				
Tuna, bluefin.....	138,172	115,088	253,260	253,260
Tuna, skipjack.....	2,868,886	589,587	3,458,273	3,458,273
Tuna, skipjack, black.....	23,275	-----	23,275	23,275
Tuna, yellowfin.....	3,165,805	1,355,498	4,521,303	4,521,303
<b>South America:</b>				
Tuna, albacore.....	2,816,049	187,815	3,003,864	3,003,864
Tuna, bigeye.....	41,839	-----	41,839	41,839
Tuna, skipjack.....	6,670,420	-----	6,670,420	6,670,420
Tuna, yellowfin.....	4,424,334	----	----	4,424,334
<b>Japan:</b>				
/ Tuna, albacore.....	16,993,140	2,008,827	19,001,967	19,001,967
Tuna, bigeye.....	23,180	-----	23,180	23,180
Tuna, skipjack.....	31,545,690	4,558,590	36,107,280	36,107,280
Tuna, yellowfin.....	4,183,878	386,311	4,570,189	4,570,189
<b>Australia and New Zealand:</b>				
Tuna, albacore.....	41,002	-----	41,002	41,002
Tuna, bluefin.....	2,923,805	-----	2,923,805	2,923,805
Tuna, skipjack.....	2,623	----	----	2,623
<b>China (Formosa):</b>				
Tuna, albacore.....	143,060	-----	143,060	143,060
Tuna, skipjack.....	141,208	--	141,208	141,208
Tuna, skipjack, black.....	27,525	-----	27,525	27,525
Tuna, yellowfin.....	849,191	159,533	1,008,724	1,008,724
<b>Malaya:</b>				
Tuna, albacore.....	994,985	-----	994,985	994,985
Tuna, skipjack.....	64,060	-----	64,060	64,060
Tuna, yellowfin.....	599,480	----	599,480	599,480
<b>South Pacific Islands:</b>				
Tuna, albacore.....	5,817,537	-----	5,817,537	5,817,537
Tuna, skipjack.....	2,904,251	-----	2,904,251	2,904,251
Tuna, yellowfin.....	699,701	----	699,701	699,701
<b>Africa:</b>				
Tuna, skipjack.....	4,145,429	-----	4,145,429	4,145,429
Tuna, yellowfin.....	284,698	----	284,698	284,698
<b>Philippines:</b>				
Tuna, skipjack.....	12,612	-----	12,612	12,612
Tuna, yellowfin.....	1,311,639	----	1,311,639	1,311,639
Total pounds.....	96,322,311	9,377,626	105,699,937	105,699,937

\* Beginning in 1965 only tuna shipments are recorded.

**TABLE 6**  
**Origin of Shipments Received for Processing in California During 1971**

TABLE 7  
Origin of Commercial Fish Landings and Volume of Shipments Into California During 1971

Species	Landings of catches from				Tuna shipments*	Grand total
	California waters	Waters north of State	Waters south of State	African waters		
<b>Fish:</b>						
Anchoa.....	89,704,584	.....	174	.....	89,705,068	.....
Barnacles, California.....	17,224	.....	40	.....	17,224	.....
Blæfis, Sacramento.....	320,258	.....	.....	.....	320,258	.....
Blacksmith.....	42,940	.....	.....	.....	42,940	.....
Bluefish.....	10,170,298	.....	9,792,716	.....	20,262,014	20,262,014
Caboson.....	4,318	.....	.....	.....	4,318	.....
Carp.....	278,636	.....	.....	.....	278,636	.....
Croaker, white.....	334,395	.....	30	.....	334,425	.....
Dolphinfish.....	1,200	.....	809	.....	1,200	.....
Flounder.....	293,225	.....	665	.....	293,890	293,890
Plemon, arrottooth.....	2,661	.....	.....	.....	2,661	.....
Flyingfish.....	160,266	.....	.....	.....	160,266	.....
Hake, Pacific.....	34,688	.....	.....	.....	34,688	.....
Hallibut, California.....	25,122	.....	.....	.....	25,122	.....
Hallibut, Pacific.....	336,416	.....	455	.....	336,571	336,571
Herring, Pacific.....	25	.....	.....	.....	25	.....
Hito.....	240,935	.....	.....	.....	240,935	.....
Lingcod.....	1,220	.....	.....	.....	1,220	.....
Lingcod.....	2,032,654	61,650	636	.....	2,097,949	2,097,949
Mackerel, jack.....	59,882,939	.....	49	.....	59,882,939	59,882,939
Mackerel, Pacific.....	155,690	.....	157	.....	155,847	.....
Mullet, longjaw.....	1,916	.....	.....	.....	1,916	.....
Opakapeye.....	5,281	.....	.....	.....	5,281	.....
Perch.....	184,256	490	192	.....	184,538	184,538
Pompano, Pacific.....	151,918	.....	15	.....	151,931	151,931
Rockfish.....	10,949,016	150,715	62,985	.....	11,165,746	.....
Sablefish.....	4,324,714	88,740	.....	.....	4,424,463	4,424,463
Salmon.....	8,115,432	1,446	.....	.....	8,116,878	8,116,878
Sardine.....	174,330	862	.....	.....	174,330	174,330
Sardine.....	272,885	.....	.....	.....	272,885	272,885
Sargo.....	333	.....	81	.....	434	434
Sculpin.....	42,059	.....	89,085	.....	131,144	131,144
Sea bass, giant.....	10,501	.....	106,697	.....	117,258	117,258
Sebastian, white.....	51,912	.....	271,572	.....	323,484	323,484
Shark.....	392,196	.....	29,139	.....	421,335	421,335

TABLE 7  
Origin of Commercial Fish Landings and Volume of Shipments Into California During 1971

Sheepshead, California.....	8,571	283	8,854	8,854
Shale.....	61,233	312	61,233	61,233
Smelt.....	348,401	348,401	348,401	348,401
Smelt, whitebait.....	146,752	146,752	146,752	146,752
Soles.....	13,669,595	783,469	13,669,595	13,669,595
Sole, English.....	2,691,158	14,576	2,694,015	2,694,015
Sole, petraleo.....	3,673,878	36,511	3,704,384	3,704,384
Sole, rey.....	1,432,196	35,730	1,467,575	1,467,575
Sole, striped.....	2,014,158	15,141	2,014,158	2,014,158
Sole, miscellaneous.....	15,289	106	15,405	15,405
Skatefish.....	152,973	1,545	154,518	154,518
Tuna, albacore.....	28,622,230	345,575	7,148,929	36,116,534
Tuna, bluefin.....	.....	.....	1,638,388	32,013,855
Tuna, bonito.....	471,247	10,779	17,259,999	2,510,065
Tuna, skipjack.....	4,680	97,834,786	3,538,172	101,377,638
Tuna, skipjack, black.....	.....	.....	55,800	55,800
Tuna, yellowfin.....	162,001	150,103,646	692,464	150,911,111
Turkeyfish.....	24,882	230	24,882	24,882
Walrus.....	2,119	1,567	230	230
Whalefish, ocean.....	.....	.....	3,706	3,706
Yellowtail, California.....	31,004	359,516	390,520	390,520
Frogfish.....	9,962	.....	1,359	1,359
Miscellaneous.....	1,169	.....	1,169	1,169
Miscellaneous (animal food).....	806,406	182,757	989,163	989,163
<b>Crustaceans.....</b>				
Crab, market.....	9,662,265	.....	9,662,265	9,662,265
Crab, rock.....	541,213	1,519	542,732	542,732
Crayfish.....	137,966	.....	137,966	137,966
Lobster, spiny.....	125,486	.....	214,298	214,298
Prawn, spot.....	11,773	.....	11,773	11,773
Shrimp, bay.....	1,859	.....	1,899	1,899
Shrimp, ocean.....	2,683,203	397,278	3,089,583	3,089,583
Miscellaneous crustaceans.....	30	.....	30	30
<b>Total pounds.....</b>	<b>291,567,829</b>	<b>2,104,211</b>	<b>284,393,199</b>	<b>4,230,636</b>
				582,295,875
				105,699,637
				687,995,612

\* For origin of shipments, refer to Table 6. Beginning in 1965 only tuna shipments are recorded.

TABLE 7—Cont'd.

TABLE 8  
Monthly Landings and Shipments into California During 1971

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
<b>LANDINGS:</b>													
Fish													
Anchova.....	34,279,430	846,854	344,133	913,979	8,617,292	256,387	201,233	781,206	2,084,940	30,601,284	4,441,212	6,337,008	89,705,068
Barracuda, California.....	62,140	31,456	90,233	945	1,740	9,175	1,699	376	383	2,608	2,608	....	17,261
Blæsfish, Sacramento.....	15,540	1,475	23,170	1,000	10,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	42,240
Bonito, Pacific.....	320,802	218,662	182,021	24,180	705,668	836,680	1,571,283	5,603,528	6,324,314	2,300,740	1,226,753	953,453	20,268,584
Cabazon.....	560	702	561	219	405	33	51	79	87	667	771	233	4,518
Carp.....	95,929	38,401	34,949	10,217	16,919	4,501	....	....	....	4,927	32,850	40,813	278,656
Cream, white.....	39,632	17,602	83,428	15,712	7,940	24,247	17,479	23,038	15,865	7,672	17,020	6,000	354,145
Dolphinfish.....	16,576	31,411	23,788	19,069	13,126	31,427	8,205	9,235	30,504	56,706	43,913	15,560	203,890
Flounder, arrowtooth.....	950	786	....	....	....	....	....	....	....	215	500	210	2,661
Frigate, Pacific.....	....	....	....	....	....	....	....	....	....	....	....	....	100,000
Hake, Pacific.....	....	....	....	....	....	....	....	....	....	....	....	....	34,685
Halibut.....	960	1,688	956	1,474	3,892	5,741	3,437	2,133	1,301	439	796	305	23,122
Halibut, California.....	28,964	17,605	22,120	10,096	33,831	32,536	31,609	62,905	35,880	14,642	10,699	12,894	336,871
Haddock, Pacific.....	....	....	....	....	....	....	....	....	....	....	....	....	25
Herring, Pacific.....	6,400	8,206	8,205	....	....	40,175	25,550	25,550	106,600	....	....	....	240,000
Hith.....	....	....	....	....	....	....	....	....	....	1,200	....	....	1,200
Lingcod.....	39,752	7,591	70,151	139,441	167,255	311,510	337,250	287,311	295,158	182,675	100,453	35,055	2,000,000
Mackerel, jack.....	2,675,510	2,424,878	8,601,649	5,150,031	1,432,715	5,031,106	2,839,533	6,380,570	2,223,823	1,707,676	16,570,032	5,261,633	50,882,384
Mackerel, Pacific.....	1,126	85	4,242	332	1,632	1,876	12,414	134	20,444	4,124	49,028	58,749	155,847
Mahseer, longjaw.....	49	187	56	168	224	90	223	362	16	394	127	87	1,948
Opah.....	542	250	367	327	734	282	1,640	74	210	355	5,281	....	....
Pewit.....	11,717	10,200	27,241	50,120	2,793	1,125	1,125	1,125	1,125	1,125	1,125	1,125	154,030
Pompano, Pacific.....	27,399	6,734	63,312	52,035	8,976	2,056	2,285	9,883	1,106	4,818	2,579	181,031	....
Rockfish.....	634,021	702,111	1,117,270	1,092,748	829,236	1,040,406	821,333	827,788	980,293	1,266,300	1,149,278	605,882	11,168,746
Sablefish.....	451,417	295,104	605,915	275,700	221,782	410,080	310,151	356,832	361,693	340,363	329,216	550,177	4,424,463
Salmón.....	....	....	....	....	....	....	....	....	....	....	....	....	8,116,878
Sandlance.....	36,178	87,046	76,155	107,176	63,064	92,501	41,179	53,944	98,824	51,430	11,069	1,001	1,001
Sardine.....	6,078	9,142	25,933	39,559	21,623	16,700	53,135	51,725	36,349	16,577	16,755	1,250	297,880
Sargo.....	....	....	11	81	180	162	....	....	....	....	....	....	434
Scallop.....	5,498	4,168	1,560	697	2,555	2,555	30,412	38,702	29,132	8,794	4,224	8,816	3,023
Sea bass.....	30,888	4,942	10,485	13,120	1,535	5,181	1,793	1,793	1,793	1,793	22,221	22,221	9,036
Seabass, white.....	31,129	43,322	90,926	60,190	15,904	50,230	29,463	212,018	55,938	109,698	45,388	67,656	523,884
Shark.....	33,561	20,900	11,691	12,707	43,156	50,198	60,679	29,463	45,153	44,568	40,975	28,582	421,339
Shorehead, California.....	161	1,044	869	103	665	1,520	1,763	650	97	328	1,197	455	8,854
Shorefish.....	765	2,070	5,011	3,641	14,221	3,248	6,840	5,391	3,430	3,430	2,747	2,747	10,233
Smelt.....	5,288	8,078	7,928	11,497	23,221	66,050	59,170	53,924	41,913	37,040	30,392	900	348,401
Smelt, whitebait.....	6,178	6,867	10,620	12,793	23,281	45,445	26,228	15,040	15,040	15,040	15,040	15,040	146,752
Sole, Dover.....	468,034	811,137	1,794,458	1,569,747	432,013	1,384,319	1,485,866	1,981,235	1,769,412	1,129,645	980,681	491,831	14,248,119

Sole, English.....	297,660	350,811	289,231	265,740	141,892	242,053	175,030	194,904	278,152	212,531	217,298	205,378	2,964,015	
Sole, petrale.....	412,153	304,323	259,581	272,620	381,889	347,742	215,901	315,027	222,977	241,442	240,202	508,622	3,714,354	
Sole, rock.....	189,200	209,560	187,540	187,473	187,533	187,533	117,046	100,527	120,130	120,130	120,130	120,130	3,277,725	
Sole, sand.....	29,436	18,652	18,042	18,051	17,178	61,703	5,420	5,010	8,190	39,539	44,984	27,203	292,417	
Sole, miscellaneous.....	762	1,120	254	497	775	344	1,067	2,029	1,822	1,388	1,699	2,088	15,465	
Seaweed.....	—	—	—	—	—	571	1,943	53,847	53,857	55,200	7,640	380	154,518	
Tuna, albacore.....	—	—	—	—	—	154	9,570	4,703,000	12,494,000	14,000,000	3,300,000	16,300,000	3,300,000	
Tuna, bigeye.....	52,088	95,862	48,533	—	—	—	—	—	—	—	1,547,372	1,898,038	—	
Tuna, bluefin.....	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	3,000,000	
Tuna, yellowfin.....	500,118	6,209,629	13,611,675	15,299,750	12,987,011	22,322,720	15,378,389	3,812,255	3,111,755	2,417,385	2,402,775	4,65,311	5,116,432	10,377,638
Tuna, pallid.....	4,613,102	24,681,003	19,315,702	21,071,704	11,987,777	14,493,423	9,808,020	10,000,000	7,121,071	9,612,810	11,650,103	11,026,241	150,911,111	
Turbot.....	460	2,348	5,152	4,053	7,500	2,336	305	90	275	771	317	230	24,882	
Wahoo.....	—	—	—	—	—	—	—	—	—	—	—	—	250	
Whiting, striped.....	356	115	360	314	1,148	219	102	—	131	—	69	293	3,265	
Yellowtail, California.....	18,643	27,052	18,365	6,855	8,058	10,044	5,170	135,677	10,290	6,052	25,067	23,547	390,820	
Frog.....	—	—	32	18	—	12	—	302	2,860	4,532	1,645	415	9,866	
Miscellaneous (animal food).....	64,849	65,002	31,661	58,902	110,609	142,448	144,808	102,794	95,211	71,184	55,223	43,322	989,163	
<b>Createl:</b>														
Crab, market.....	112,457	2,884,384	3,145,624	205,022	557,739	418,803	67,532	22,221	24	—	123,070	1,054,710	9,662,265	
Crab, rock.....	51,256	53,277	50,859	47,924	44,538	47,613	41,630	29,835	27,101	56,325	542,732	—	—	
Crayfish.....	—	—	—	—	—	—	—	—	—	—	78	137,565	—	
Lobster, spiny.....	27,063	25,729	10,300	10,300	10,300	28,257	48,725	41,738	1,524	64,392	55,479	41,950	21,144	
Prawn, spot.....	2,236	1,793	672	—	—	26	—	—	—	1,354	3,339	2,353	11,773	
Shrimp, bay.....	1,358	341	180	—	—	—	—	20	—	—	—	—	1,899	
Shrimp, ocean.....	—	—	—	—	—	439,212	94,555	1,000,528	482,808	206,480	—	—	3,080,583	
Miscellaneous crustacean.....	—	—	—	—	—	—	—	—	—	—	30	—	30	
<b>Echinoderms:</b>														
Sea star.....	—	—	—	—	—	—	—	—	—	—	450	—	450	
Sea urchin.....	—	—	—	—	—	200	—	—	—	—	—	200	—	
<b>Mollusk:</b>														
Ahalone.....	627,735	879	247,023	179,370	328,037	314,654	339,478	742	102,579	233,092	238,874	242,855	2,945,318	
Clam, bivalve.....	5	12	10	10	10	—	—	—	—	—	—	—	—	
Mussel.....	188	275	150	50	—	—	—	—	—	275	50	988	—	
Octopus.....	32	178	145	126	169	110	197	304	169	134	143	197	1,804	
Oyster.....	1,203	1,203	1,203	1,143	1,143	727	698	698	1,271	911	1,169	1,162	1,162	
Oyster, giant Pacific.....	5,544,700	2,624,333	677,134	113,424	93,456	85,614	59,476	44,597	43,755	46,721	83,081	103,226	94,529	944,674
Squid.....	—	—	—	—	—	—	—	35,752	35,752	2,017,218	430,960	403,825	6,827	
Total pounds.....	51,653,038	43,644,024	51,453,999	50,939,450	44,925,027	64,857,078	49,932,212	41,508,857	43,808,261	56,454,908	42,791,300	37,359,991	582,295,875	
<b>SHIPMENTS:</b>														
<b>Fish:</b>														
Tuna, albacore.....	1,691,201	1,632,747	2,006,704	1,791,205	916,321	477,432	1,492,000	3,111,162	255,424	2,571,477	6,881,003	8,844,008	30,013,555	
Tuna, bigeye.....	41,830	—	—	—	—	22,695	485	—	—	—	—	—	65,019	
Tuna, bluefin.....	519,483	200,263	655,814	—	—	273,683	117,545	—	123,353	11,684	24,605	400,630	2,577,065	
Tuna, skipjack.....	3,896,310	3,082,165	3,082,165	10,149,353	3,050,573	1,060,568	5,000	1,000,935	1,157,150	1,000,932	8,300,002	9,021,115	55,410	
Tuna, skipjack, black.....	—	—	—	—	—	50,800	5,000	—	—	—	—	—	55,800	
Tuna, yellowfin.....	809,608	779,707	2,753,506	416,011	551,791	885,438	205,020	67,036	818,741	177,146	4,355,324	4,201,537	17,223,888	
Total pounds.....	7,058,630	5,098,619	13,523,971	12,386,071	5,456,388	3,581,356	2,357,688	5,309,463	2,351,912	6,315,736	18,927,014	22,558,194	105,699,507	
Grand total.....	58,551,668	49,343,543	64,977,870	63,323,124	50,381,407	48,568,434	52,369,900	49,908,150	46,163,173	62,771,644	61,718,314	59,918,485	69,995,812	

\* For origin of shipments refer to Table 6. Beginning in 1965 only tuna shipments are recorded.

TABLE 8—Cont'd.

**TABLE 9**  
Monthly Landings of Commercial Fishing Boats in the Eureka Area During 1971

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
<b>LANDINGS FROM:</b>													
California waters:													
Fish:													
Bass, Pacific.....	-----	-----	-----	-----	-----	-----	51	-----	-----	390	-----	-----	390
Cabazon.....	-----	-----	-----	-----	-----	-----	51	-----	-----	51	-----	-----	51
Flounder.....	18	3,988	186	6,731	10,454	19,632	4,542	2,543	15,882	26,547	32,646	1,490	124,557
Haddock, arrowtooth.....	950	785	-----	-----	-----	-----	35	34	12	500	210	-----	2,416
Hallibut, California.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	71
Halibut, Pacific.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Lingcod.....	19,674	23,850	23,265	50,330	36,932	169,934	212,675	205,576	150,756	106,402	28,231	11,905	110,591
Perch.....	2,886	9,007	6,170	19,955	-----	-----	8,002	15,183	5,785	6,332	1,967	699	72,996
Pike, lake.....	204,160	348,176	337,741	357,100	169,344	347,453	465,120	350,500	192,160	192,160	192,160	174,633	1,000,000
Sablefish.....	177,909	197,478	279,200	185,572	73,810	222,089	215,531	235,308	194,018	189,597	247,149	322,504	2,490,210
Salmon.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Sanddab.....	16,058	66,774	16,036	69,835	94,738	63,413	20,510	337	60,058	50,756	188	-----	5,631,764
Shark.....	34	207	-----	-----	461	7,830	2,670	155	75	75	297	42	692
Smelt.....	-----	-----	24	2,701	11,209	40,152	45,270	45,631	19,726	3,144	-----	-----	107,581
Sole, whitebait.....	6,178	6,751	9,983	12,398	22,175	41,811	27,572	15,040	18,777	857,708	849,287	113,700	11,759,941
Sole, Dover.....	355,216	625,966	1,067,023	1,308,688	268,776	1,196,616	1,628,840	1,284,708	1,284,708	1,284,708	1,284,708	1,284,708	140,108
Sole, English.....	38,074	140,320	101,584	180,172	69,978	119,713	95,461	65,451	112,333	170,912	71,718	12,231	85,117,783
Sole, green.....	26,141	34,000	100,000	100,000	171,000	171,000	171,000	171,000	171,000	171,000	171,000	171,000	294,899
Sole, rex.....	88,049	141,636	86,278	97,271	35,373	108,150	92,058	68,394	90,276	87,508	143,902	45,902	1,013,569
Sole, sand.....	546	647	97	3,976	15,041	35,238	3,764	1,045	3,847	18,777	19,174	843	10,635
Tuna, albacore.....	-----	-----	-----	-----	9,570	-----	409,044	2,309,886	280,420	280,420	45,978	27,094	3,075,924
Turbot.....	-----	800	-----	583	-----	189	19	75	254	29	167	-----	281
Murex.....	-----	-----	-----	-----	-----	-----	19	75	254	29	167	-----	281
Miscellaneous (animal food).....	10,794	16,827	4,961	7,154	17,169	22,250	44,614	52,368	11,395	8,003	10,402	18,842	225,169
<b>Crustaceans:</b>													
Crab, market.....	25,620	2,813,310	3,108,968	391,541	554,734	405,075	67,532	22,201	-----	-----	-----	-----	1,882,765
Crab, rock.....	40	-----	300	960	-----	-----	-----	140	-----	-----	-----	-----	1,740
Shrimp, ocean.....	-----	-----	-----	-----	1,555	1,555	436,402	334,886	355,076	181,731	-----	-----	2,080,650

**TABLE 9**  
***Monthly Landings of Commercial Fishing Boats in the Eureka Area During 1971***

<b>Mollusk:</b>																				
Clam, unclassified.....	....	178	....	51	44	70	112	80	44	27	22	28	28	....	....	....	....	....	....	
Octopus.....	65,695	66,533	84,525	73,326	63,611	39,425	24,111	24,111	23,338	65,692	80,600	80,548	80,548	692,415	628	628	628	628	628	
Oyster, etc., Pacific.....	....	....	....	....	....	....	....	197	....	....	....	....	....	....	....	....	....	....	197	
Squid.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
Total pounds.....	1,273,884	4,613,775	5,808,949	2,851,679	1,979,229	5,488,904	6,293,355	6,922,699	3,174,239	2,620,800	2,144,109	3,291,490	46,493,112	46,493,112	....	....	....	....	....	
<b>Waters north of State:</b>																				
<b>Fish:</b>																				
Flounder.....	12	491	....	257	....	14,311	10,365	15,497	15,021	8,086	446	....	665	....	....	....	....	....	....	
Lingcod.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
Rockfish.....	862	8,052	....	2,402	....	11,305	21,330	47,034	38,317	20,652	6,759	....	156,713	....	....	....	....	....	....	
Sablefish.....	2,493	2,095	....	5,823	....	7,145	12,322	21,591	12,302	16,827	7,349	....	88,749	....	....	....	....	....	....	
Salmon.....	....	....	....	....	....	....	....	334	1,049	63	....	....	....	....	....	....	....	....	....	
Sandlance.....	....	....	....	....	....	116	....	122	....	....	....	....	....	....	....	....	....	....	....	
Sole, Dover.....	3,500	4,406	....	26,776	....	88,427	109,837	167,405	179,086	159,326	43,706	....	782,450	....	....	....	....	....	....	
Sole, English.....	....	....	....	....	....	901	....	1,353	1,277	3,025	3,025	....	1,121	....	....	....	....	....	....	
Sole, green.....	4,143	7,422	....	317	....	2,583	590	1,066	5,217	6,775	888	....	30,511	....	....	....	....	....	....	
Sole, rock.....	554	3,660	....	888	....	4,366	3,575	7,024	8,030	6,331	1,111	....	33,739	....	....	....	....	....	....	
Sole, sand.....	....	....	....	....	4,113	....	10,933	45,619	28,341	58,059	32,154	3,561	....	182,757	....	....	....	....	....	
Miscellaneous (animal food).....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
<b>Crustacean:</b>																				
Shrimp, ocean.....	....	....	....	....	....	....	....	111,231	124,466	136,832	24,749	....	....	397,278	....	....	....	....	....	
<b>Mollusk:</b>								....	....	74	20	107	....	....	....	....	....	....	201	
Octopus.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
Total pounds.....	11,566	29,703	....	41,326	....	141,255	318,275	414,735	457,349	279,187	65,240	....	1,758,636	....	....	....	....	....	....	
<b>Grand total.....</b>	1,285,450	4,643,478	5,808,949	2,893,005	1,979,229	5,630,159	6,611,630	7,337,434	3,631,588	2,899,987	2,209,349	3,291,490	48,221,748	48,221,748	....	....	....	....	....	....

TABLE 9—Cont'd.

TABLE 10

Monthly Landings of Commercial Fishing Boats in the San Francisco Area During 1971 \*

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
<b>LANDINGS FROM: California waters:</b>													
<b>Fish:</b>													
Anchova.....	8,000	19,835	8,610	22,129	27,500	41,400	64,694	62,410	50,900	13,200	318,688		
Blackfish, Sardinella.....	62,005	51,456	90,533	17,475	25,170	9,450	.....	.....	2,902	34,190	29,267	320,558	
Bluefish, Pacific.....	.....	.....	.....	.....	.....	.....	.....	542	4,602	238	.....	5,172	
Cabazon.....	127	.....	.....	.....	.....	.....	8	.....	.....	.....	.....	135	
Carp.....	95,475	37,480	32,569	8,249	16,035	3,050	.....	.....	4,027	32,850	40,843	271,870	
Croaker, white.....	160	115	320	205	265	472	224	482	2,191	348	180	57	4,754
Flounders.....	15,975	22,771	15,270	3,965	265	9,092	3,048	3,443	3,043	19,274	9,720	14,440	120,000
Frigate, smooth.....	.....	.....	.....	.....	.....	.....	.....	215	.....	.....	.....	215	
Hake, Pacific.....	.....	.....	.....	.....	.....	12,080	3,715	.....	.....	.....	.....	15,775	
Halibut, California.....	7,295	4,849	5,157	275	400	91	632	4,740	16,893	7,794	5,926	9,632	63,694
Herring, Pacific.....	6,400	8,266	3,970	.....	.....	.....	.....	.....	1,200	.....	.....	.....	18,636
Hopper, sand.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	100
Lingcod.....	9,290	7,270	19,401	27,381	35,281	80,259	60,315	85,496	33,451	19,955	25,300	23,436	429,881
Mackerel, jack.....	.....	.....	.....	.....	.....	.....	.....	780	259	130	.....	1,118	
Mackerel, longtail.....	46	187	59	188	244	60	228	235	369	46	127	87	1,045
Pewit.....	4,837	4,442	9,673	7,648	10	.....	335	2,167	2,588	3,274	5,305	4,055	45,051
Rockfish.....	58,885	80,055	52,263	94,121	155,640	121,470	94,596	104,064	99,765	73,337	227,470	57,294	1,215,899
Sabinefish.....	34,791	34,880	39,481	40,980	81,057	50,126	54,477	54,477	111,196	55,316	62,137	48,332	641,779
Sahrung.....	.....	.....	.....	.....	.....	28,170	32,900	81,857	51,011	143,111	143,111	21,100	811,196
Sanddab.....	18,531	13,947	35,426	31,290	16,770	14,640	10,030	39,115	19,080	21,150	25,375	7,560	352,904
Shark.....	3,176	1,234	3,447	500	3,276	760	634	284	4,499	8,804	10,420	8,889	46,203
Skate.....	880	550	100	.....	.....	.....	.....	900	200	700	1,415	4,445	
Smelt.....	85	7,455	2,956	3,132	6,114	18,453	12,775	1,128	1,632	170	30	.....	49,175
Sting, whiptail.....	116	.....	.....	.....	107	1,046	3,534	4,466	.....	.....	.....	444	
Sole, Dover.....	107,593	179,836	121,055	172,688	170,189	78,779	71,896	173,119	285,913	104,496	87,555	71,367	1,694,591
Sole, English.....	152,902	83,039	65,749	39,197	27,180	69,346	61,056	109,023	104,990	79,927	104,029	152,372	1,048,810
Sole, petrale.....	112,898	40,053	68,499	120,453	264,707	112,218	92,861	214,523	83,920	71,392	113,694	53,298	1,379,557
Sole, sand.....	29,120	29,120	13,929	13,929	8,040	20,120	21,020	24,020	24,020	24,020	24,020	24,020	24,020
Sole, sand.....	15,130	18,070	10,100	1,400	70	26,105	620	3,265	3,565	20,265	24,110	24,635	144,425
Sole, miscellaneous.....	.....	.....	.....	.....	.....	.....	13	.....	.....	.....	.....	13	

NORTHERN CALIFORNIA FISHERIES

TABLE 10  
Monthly Landings of Commercial Fishing Boats in the San Francisco Area During 1971

Tuna, albacore.....	48	665	760	....	....	21	125,228	2,248,115	4,270,386	332,645	19,466	6,995,440	
Turbot.....	....	....	....	....	....	21	....	....	....	....	665	4,440	
Frog.....	....	....	32	18	....	12	....	303	2,890	4,002	1,220	8,446	
Miscellaneous.....	....	....	....	....	....	2	....	3	23	2	25	315	
(Miscellaneous animal food).....	....	....	....	2,660	3,350	....	....	....	....	....	1	6,019	
<b>Crustacean:</b>													
Crab, market.....	86,389	50,718	35,601	2,201	1,832	12,808	....	....	....	123,027	71,906	384,482	
Crayfish.....	....	....	57	....	16,587	25,257	45,725	41,735	1,524	539	450	137,956	
Shrimp, bay.....	1,358	341	180	....	....	....	....	....	20	....	....	1,359	
Shrimp, ocean.....	....	....	....	....	700	....	....	....	....	....	....	700	
Sea star.....	....	....	....	....	....	....	....	....	....	450	....	450	
<b>Mollusk:</b>													
Oyster, common.....	2,330	....	2,775	1,730	2,700	1,460	2,415	75	6,391	2,038	1,379	1,396	
Clam, unclassified.....	....	....	20	10	10	....	....	20	10	....	40	120	
Octopus.....	32	....	45	75	125	40	40	85	150	105	....	657	
Oyster, tenacious.....	1,320	1,058	1,260	1,103	1,175	797	669	1,069	1,737	914	1,156	1,153	
Oyster, giant Pacific.....	23,440	17,353	18,850	15,207	14,577	20,198	20,486	15,449	15,511	15,393	14,510	6,465	
<b>Grand total</b> .....	<b>858,520</b>	<b>693,479</b>	<b>734,552</b>	<b>622,098</b>	<b>1,113,681</b>	<b>1,089,385</b>	<b>1,522,137</b>	<b>3,687,184</b>	<b>5,309,303</b>	<b>938,205</b>	<b>1,002,625</b>	<b>683,981</b>	<b>16,215,128</b>

\* Includes Sacramento area landings.

TABLE 10—Cont'd.

TABLE 11  
Monthly Landings of Commercial Fishing Boats in the Monterey Area During 1971

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
<b>LANDINGS FROM:</b>													
<b>California waters:</b>													
Fish:													
Ashley.....	242,350	30,000	1,000	1,400	21,500	.....	36,700	158,700	806,240	1,108,850	1,755	1,400	2,409,040
Bonito, Pacific.....	22	.....	180	215	443	25	.....	.....	2,885	12,137	1,755	678	18,777
Cabazon.....	22	2,783	1,000	2,007	257	21,000	16,331	21,000	7,500	5,000	1,000	2,333	2,570
Crabs, white.....	1,284	2,755	1,000	2,007	257	21,000	16,331	21,000	7,500	5,000	1,000	2,333	9,192
Flounder.....	1,350	1,192	5,999	1,863	2,657	615	3,249	11,847	4,183	259	.....	32,893	
Hake, Pacific.....	.....	.....	.....	.....	600	.....	.....	.....	.....	.....	.....	600	
Hallibut, California.....	303	153	568	180	1,712	996	22,398	16,396	4,925	161	50	47,812	
Herring, Pacific.....	.....	.....	.....	.....	40,000	40,000	25,000	10,000	10,000	10,000	10,000	200,000	
Lingcod.....	7,556	9,028	13,928	32,090	43,470	69,457	31,840	8,121	5,775	18,705	15,930	14,399	261,299
Mackerel, jack.....	47,184	44,930	8,238	7,655	13,660	5,114	891	9,435	16,209	6,440	3,900	.....	163,746
Perch.....	57	100	8,139	10,918	1,570	571	734	180	154	119	73	29,174	
Pompano, Pacific.....	.....	.....	.....	.....	.....	283	755	1,274	1,274	25	33	1,645	
Rockfish.....	156,143	171,053	445,403	422,321	249,051	265,307	105,323	59,633	165,000	235,000	12,880	132,301	2,309,553
Sabrefish.....	238,672	119,551	180,634	71,325	69,655	138,189	56,370	26,611	43,080	84,753	12,581	149,341	1,197,695
Salmon.....	.....	.....	185	100,448	60,111	76,696	26,671	6,848	138	.....	.....	270,772	
Sanddab.....	1,589	5,871	23,462	8,711	11,550	13,608	2,138	6,825	11,176	3,007	98	1,145	89,189
Sardine, white.....	.....	.....	100	50	100	100	100	100	100	100	100	100	200
Shark.....	329	318	119	144	217	2,518	1,005	1,239	1,031	1,304	227	700	9,171
Skate.....	2,000	2,000	1,850	5,765	7,280	5,450	3,255	6,469	6,145	2,253	.....	1,395	44,980
Smelt.....	3,968	14	2,000	2,000	2,000	4,500	2,000	2,000	2,000	2,000	2,000	92	24,461
Sole, Dover.....	1,725	603	5,450	1,150	7,290	11,740	3,030	8,205	2,100	7,500	.....	6,610	30,735
Sole, English.....	30,225	44,319	61,230	28,665	28,370	38,905	6,490	8,940	29,649	20,800	.....	11,480	311,673
Sole, petrale.....	26,290	31,317	40,705	20,620	17,900	25,375	6,580	11,960	12,730	14,110	.....	31,750	239,337
Sole, sand.....	17,135	17,750	40,705	1,420	1,420	1,420	1,420	340	3,080	9,490	.....	11,035	105,735
Sole, sand.....	1,025	1,025	730	3,630	1,410	270	45	340	1,000	1,000	100	.....	7,270
Sole, miscellaneous.....	.....	65	10	144	17	215	882	1,575	1,702	907	.....	.....	5,617
Tuna, albacore.....	.....	.....	.....	.....	.....	.....	61,087	3,888,671	5,304,041	1,044,422	37,049	.....	10,338,870
Turtle.....	.....	.....	.....	.....	.....	.....	15	.....	.....	.....	.....	.....	0
Frogfish.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	580	425	415	1,420
Miscellaneous.....	.....	.....	.....	50	.....	.....	.....	.....	3	.....	21	.....	74
Miscellaneous (animal food).....	.....	.....	.....	1,400	.....	.....	.....	.....	.....	.....	.....	.....	1,400

TABLE 11  
Monthly Landings of Commercial Fishing Boats in the Monterey Area During 1971

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TABLE 11—*Cont'd.*

<b>Crustacean:</b>																				
Crab, market.....	148	248	119	8	....	....	....	....	....	....	....	....	14	553						
Crab, rock.....	220	109	68	....	....	....	....	....	....	....	....	....	16	524						
Prawn, spot.....	2,256	1,793	672	....	....	....	....	....	....	....	....	....	70	2,353	11,747					
<b>Mollusca:</b>																				
Whelk.....	5	13	....	....	....	....	....	....	....	....	....	....	....	....	107					
Clam, unclassified.....	188	275	150	50	....	....	....	....	....	....	....	....	....	275	50	988				
Mussel.....	....	....	....	....	2,448,300	8,143,818	3,148,125	171,725	1,908,200	380,400	....	....	131	124	312					
Oyster.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	16,646,423				
Squid.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....			
<b>Grand total.....</b>	<b>777,291</b>	<b>486,121</b>	<b>852,707</b>	<b>635,916</b>	<b>3,082,174</b>	<b>8,843,967</b>	<b>3,589,126</b>	<b>4,557,743</b>	<b>8,346,301</b>	<b>2,969,388</b>	<b>546,218</b>	<b>371,801</b>	<b>35,060,753</b>							

TABLE 12  
Monthly Landings of Commercial Fishing Boats in the Santa Barbara Area During 1971

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
<b>LANDINGS FROM: California waters:</b>													
<b>Fish:</b>													
Anchovy.....	3,697,900	17,259	4,600	18,800	819,800	29,800	47,000	430,000	1,093,550	4,823,380	3,607,950	5,130,800	19,721,639
Barnacle, California.....	1	—	—	—	—	—	—	232	1,268	147,469	1,152	68,480	372
Bonito.....	86,932	40,913	—	—	4	22	8	—	51	—	86	—	61,935
Cabazon.....	538	649	372	—	—	—	—	—	—	—	—	—	1,730
Croaker, white.....	52	—	—	61	135	—	—	—	—	—	—	—	248
Flounder.....	583	3,304	7,132	2,374	545	—	—	—	30	227	818	—	18,013
Glassy, Pacific.....	—	—	—	—	—	232	17,885	—	—	—	—	—	10,010
Hake, Pacific.....	16,836	7,981	6,212	5,316	15,814	18,433	20,247	31,428	4,632	1,047	1,653	1,597	131,198
Lingcod.....	3,123	7,414	13,496	20,313	18,280	15,363	18,532	17,418	25,520	28,847	35,740	22,210	225,881
Mackerel, California.....	10,496	16,850	40,850	43,704	30,950	18,780	41,150	—	—	97,150	21,150	24,908	141,335
Mackerel, Pacific.....	21	—	—	—	—	—	—	—	—	—	—	—	21
Perch.....	3,242	1,941	1,801	1,014	—	63	42	1,122	781	296	532	280	303
Pompano, Pacific.....	165	—	255	118	940	—	—	—	—	—	—	—	11,417
Rockfish.....	152,156	105,984	136,000	124,144	178,000	236,520	117,880	106,847	170,500	207,588	185,565	161,275	1,912,141
Sablefish.....	550	—	130	—	—	—	150	—	—	—	—	—	830
Salmon.....	—	—	2,239	17,043	30,461	21,055	14,533	14,779	—	—	—	—	100,100
Sanddab.....	—	—	237	99	—	810	80	—	—	—	—	—	1,286
Sea bass, giant.....	75	—	—	—	115	—	31	82	150	—	—	—	879
Seahorse, white.....	1,487	4,024	4,617	487	1,808	3,067	6,835	16,697	24,563	95,955	6,552	1,398	196,164
Shark.....	2,771	4,214	1,635	2,612	6,580	4,283	3,342	3,287	3,412	3,124	4,332	4,713	44,335
Sheepshead, California.....	—	107	33	—	—	17	17	22	35	—	27	152	410
Skate.....	—	—	91	—	66	24	—	—	—	—	—	—	181
Smelt.....	—	—	—	51	—	—	—	—	—	—	—	—	74
Sole, Dover.....	—	—	—	465	5,760	5,756	2,660	2,660	4,605	—	205	—	22,111
Sole, English.....	75,489	80,273	51,388	17,111	16,364	13,838	8,005	10,306	27,120	34,180	41,047	31,015	409,196
Sole, petrale.....	7,399	11,935	20,393	25,803	52,390	33,166	8,987	11,101	43,773	27,413	56,990	112,450	411,791
Sole, sand.....	2,451	8,005	2,000	2,000	3,592	1,395	180	180	3,849	6,010	4,589	4,752	18,762
Sole, sand.....	13,760	1,910	0,235	3,645	—	—	—	340	370	—	1,234	1,725	29,866
Sole, miscellaneous.....	752	995	82	20	706	129	584	892	20	566	1,683	2,066	8,466
Swordfish.....	—	—	—	—	—	—	—	469	11,702	16,178	—	—	25,349
Tuna, albacore.....	—	—	—	—	—	—	—	—	—	—	—	—	3,384,76
Tuna, blue.....	465	983	4,372	3,470	7,300	1,377	90	23	—	—	—	—	18,587
Whitefish, ocean.....	—	—	—	—	—	—	—	13	17	—	—	—	23
Yellowtail, California.....	—	—	—	—	—	—	—	—	—	—	—	—	30
Miscellaneous (animal food)....	54,055	48,375	29,610	47,635	88,880	105,915	54,575	21,995	—	31,327	41,170	24,480	573,827

TABLE 12  
Monthly Landings of Commercial Fishing Boats in the Santa Barbara Area During 1971

<b>Crustacean:</b>															
Crab, market.....	25,661	108	936	1,939	1,173	20	9,265	7,758	24	8,714	36	25	4,201	159,833	
Crab, rock.....	22,381	22	50,362	18,411	16,016	15,232	—	—	3,480	6,214	6,214	18,391	53,363	159,833	
Lobster, spiny.....	14,661	11,901	5,368	—	—	—	26	—	—	—	—	—	—	26	15,391
Prawn, spot.....	—	—	—	—	—	—	2,110	—	—	—	—	—	—	2,110	—
Shrimp, ocean.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Echinoderm:</b>															
Sea urchin.....	—	—	—	—	—	—	200	—	—	—	—	—	—	200	—
<b>Mollusk:</b>															
Absalone.....	261,140	—	78,927	83,558	132,306	151,680	159,414	—	111,125	136,770	136,773	148,664	1,401,326	1,401,326	
Oyster, giant Pacific.....	10,871	11,743	10,549	6,923	7,398	3,853	—	655	2,872	4,080	8,116	7,216	7,216	7,216	74,074
Squid.....	2,634,590	1,180,600	40,200	1,730,780	195,550	481,480	364,100	37,165	10,300	—	—	—	—	—	6,685,735
Total pounds.....	7,050,340	1,636,291	471,219	2,571,605	1,631,147	1,574,015	1,014,130	1,510,214	3,354,038	6,197,678	5,608,133	5,973,287	38,619,127	38,619,127	—
<b>Waters south of State:</b>															
<b>Fish:</b>															
Tuna, albacore.....	—	—	—	—	—	—	—	—	16,550	—	—	—	—	16,550	—
Total pounds.....	—	—	—	—	—	—	—	—	16,550	—	—	—	—	16,550	—
Grand total.....	7,050,340	1,636,291	471,219	2,571,605	1,631,147	1,574,015	1,014,130	1,526,794	3,354,038	6,197,678	5,608,133	5,973,287	38,619,127	38,619,127	38,635,677

TABLE 12—Cont'd.

TABLE 13

Monthly Landings and Shipments of Commercial Fish Into the Los Angeles Area During 1971

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
<b>LANDINGS FROM:</b>													
California waters: Fish:													
Anchovy.....	30,339,280	709,516	330,320	873,944	7,767,354	204,648	90,053	150,505	120,056	24,605,644	782,355	1,191,698	67,255,374
Barracuda, California.....	.....	.....	368	709	4,105	770	195	214	.....	2,456	.....	.....	8,908
Blackened Seatrout.....	.....	.....	21,000	10,000	.....	.....	.....	.....	1,225	10,40	.....	.....	10,40
Bluefin Pacific.....	213,543	131,716	87,321	3,549	17,512	20,252	4,765	1,241,207	4,091,351	1,692,800	748,702	540,832	8,748,623
Carp.....	454	921	1,989	1,068	883	551	.....	.....	.....	.....	.....	.....	6,766
Croaker, white.....	37,005	13,524	80,938	14,745	4,749	2,143	934	2,460	6,420	1,700	5,835	55,969	227,028
Flounder.....	.....	8	.....	.....	20,105	90,351	41,570	38,240	.....	.....	.....	.....	8
Hopper.....	.....	.....	.....	2,406	3,849	979	1,915	1,301	1,16	.....	.....	.....	169,298
Halibut, California.....	2,846	3,740	8,698	2,656	16,069	30,800	8,984	1,151	794	428	1,864	424	78,454
Lingcod.....	68	17	40	33	.....	.....	.....	.....	20	115	.....	.....	2,617
Mackerel, jack.....	2,831,130	2,325,750	8,577,321	4,718,241	1,369,055	4,026,200	2,200,000	6,580,175	2,212,345	1,740,079	15,568,628	4,082,350	37,441,533
Mackerel, Pacific.....	1,055	85	4,142	322	1,205	769	12,580	173	20,394	1,4579	10,628	38,550	153,531
Opah.....	.....	.....	547	734	78	1,574	74	210	.....	.....	.....	3,217	.....
Petraleo.....	386	386	1,170	1,550	1,530	6,975	1,482	1,133	340	520	14,807	.....	.....
Pompano, Pacific.....	27,209	6,400	83,544	34,566	8,466	1,884	725	1,600	8,000	1,031	4,785	2,500	175,700
Rockfish.....	45,454	45,313	81,500	19,103	37,000	36,576	15,205	44,507	18,601	37,824	74,151	45,960	140,238
Sablefish.....	.....	.....	.....	.....	381	225	125	.....	22	.....	.....	731	.....
Sandab.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15	188
Sardine.....	6,075	9,142	6,633	684	2,273	8,935	37,785	49,373	22,249	8,737	15,865	1,000	163,889
Sargo.....	.....	11	.....	.....	180	15	.....	.....	.....	.....	.....	.....	209
Sculpin.....	.....	840	13	25	1,008	.....	.....	.....	.....	.....	.....	.....	1,886
Sea bass, giant.....	165	281	195	272	2,558	1,218	170	278	.....	.....	.....	.....	4,856
Sebastodes.....	4,302	9,107	781	1,059	1,158	34,189	13,300	23,649	1,731	1,214	13,341	225,959	.....
Shark.....	3,697	5,913	1,401	5,388	15,129	20,205	17,087	8,965	9,506	10,839	11,042	1,972	112,161
Sheepshead, California.....	161	872	406	103	574	1,098	1,519	525	62	13	590	30	6,013
Smelt.....	1,235	587	3,530	5,735	3,620	7,695	385	10	20,150	33,700	30,270	900	107,517
Sole, petraleo.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,550
Sole, petraleo.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16,235	16,235
Sole, miscellaneous.....	.....	.....	.....	30	.....	.....	154	.....	.....	.....	.....	.....	184

FISH  
HIGHLIGHTS  
1971

TABLE 13

Monthly Landings and Shipments of Commercial Fish Into the Los Angeles Area During 1971

	YEARLY CATCH FOR 1971													
	FISH CATCH BY SPECIES													
Swordfish.....	260	835	4,150	22,632	21,681	5,083	380	53,542						
Tuna, albacore.....	59,794	424,775	2,112,572	917,356	239,204	2,146	3,776,147							
Tuna, bluefin.....	57,995	124,531	62,471	223,369	—	2,882	471,188							
Tuna, skipjack.....	120	14,350	128,569	120	120	50	555							
Tuna, yellowfin.....	767	185	5	45	—	—	144,301							
Whitefish, ocean.....	781	35	282	2,018	637	302	105	—	50	175	4,835			
Yellowtail, California.....	—	—	80	31	—	—	—	133	—	—	—			
Miscellaneous.....	—	—	—	—	—	—	—	—	—	—	—			
<b>Crustacean:</b>														
Crab, rock.....	25,155	24,449	25,589	29,233	25,379	29,617	38,291	42,041	37,997	26,514	19,728	36,603	360,296	
Lobster, spiny.....	5,134	9,996	2,656	—	—	—	—	—	18,860	20,732	16,145	73,553		
<b>Mollusk:</b>														
Abalone.....	239,164	554	120,979	55,760	112,479	81,576	99,175	—	43,277	46,987	45,173	42,240	887,464	
Squid.....	2,910,200	1,431,200	636,150	842,000	1,055,833	693,900	361,300	147,665	98,700	30,560	48,000	6,000	8,155,108	
Total pounds.....	36,401,346	4,820,750	10,005,998	6,681,835	10,463,341	5,792,845	3,075,893	8,905,307	8,921,925	29,550,915	17,692,014	7,031,453	149,346,605	
<b>Waters north of State:</b>														
<b>Fish:</b>														
Tuna, albacore.....	—	—	—	—	—	—	—	—	—	—	—	—	337,119	
Total pounds.....	—	—	—	—	—	—	—	—	—	—	—	—	337,119	
<b>Waters south of State:</b>														
<b>Fish:</b>														
Bonito, Pacific.....	1,228	23,447	49,449	921	555,214	544,055	1,582,493	3,640,678	1,062,441	406,265	242,880	243,967	8,353,038	
Dolphinfish.....	—	—	—	—	—	—	—	—	—	—	730	730		
Dab, California.....	65	—	—	—	—	—	10	—	—	—	249	55	69	
Lings, California.....	—	—	—	—	—	—	—	—	—	—	540	540		
Perch.....	—	—	192	—	—	—	—	—	—	—	—	192		
Rodfish.....	—	2,435	1,950	3,558	2,475	370	—	—	—	240	785	4,167	15,980	
Sargo.....	—	—	—	81	—	—	—	—	—	—	—	—	81	
Sea bass.....	5,800	5,723	8,702	11,053	506	2,876	—	—	17,260	21,683	23,119	4,766	99,325	
Seabass, white.....	13,182	12,384	50,724	49,540	1,334	11,916	57	—	—	5,419	9,643	33,254	187,453	
Shark.....	7,900	—	260	—	45,540	918	—	—	—	—	—	8,778		
Sheepshead, California.....	—	—	—	—	—	—	57	—	—	—	—	57		
Tuna, bigeye.....	—	—	—	—	—	—	1,124,970	981,259	177,681	25,575	480	—	3,290,014	
Tuna, bluefin.....	—	—	51,600	48,833	—	—	—	—	62,185	—	—	—	1,424,466	
Tuna, skipjack.....	—	—	49,365	—	542,760	2,669,906	1,892,946	1,830,652	1,315,202	1,888,407	400,765	17,935	10,407,968	
Total pounds.....	476,059	4,651,965	10,162,677	10,536,756	11,348,558	17,201,158	12,245,932	2,855,753	490,241	914,053	1,110,412	3,075,895	14,472,559	

TABLE 13—Cont'd.

TABLE 13—Continued  
Monthly Landings and Shipments of Commercial Fish Into the Los Angeles Area During 1971—Continued

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
<b>Waters south of State:</b>													
Fish:													
Tuna, yellowfin.....	3,436,315	19,580,907	13,844,650	17,346,456	11,904,420	11,453,766	7,841,336	3,533,157	6,127,370	8,183,699	8,365,710	10,291,330	121,699,146
Whitefin.....	183	---	---	281	---	265	---	---	---	---	290	263	230
Whitefin, ocean.....	183	---	---	281	---	265	---	---	---	---	290	263	1,022
Yellowtail, California.....	13,056	17,922	10,504	5,992	5,398	5,376	2,886	134,325	103,695	1,072	9,656	18,807	328,459
Total pounds.....	3,951,097	24,241,778	24,180,516	28,003,293	21,091,023	31,889,718	24,473,113	12,518,262	9,293,940	11,443,803	10,161,629	15,118,305	219,373,077
<b>African waters:</b>													
Fish:													
Tuna, skipjack.....	---	---	---	---	---	---	---	---	---	---	1,534,362	2,003,810	3,538,172
Tuna, yellowfin.....	---	---	---	---	---	---	---	---	---	---	666,576	125,588	692,464
Total pounds.....	---	---	---	---	---	---	---	---	---	---	2,106,938	2,129,698	4,220,636
<b>SHIPMENTS.*</b>													
Fish:													
Tuna, albacore.....	1,991,391	1,632,747	1,971,184	1,791,395	919,321	411,977	1,107,381	3,111,163	255,424	2,878,477	6,660,580	7,388,174	29,817,213
Tuna, bonito.....	---	---	---	---	22,995	---	---	---	---	---	1,000	1,000	1,000
Tuna, skipjack.....	310,483	200,203	655,644	---	---	---	273,083	147,545	---	8,500	11,084	244,603	400,530
Tuna, skipjack.....	3,696,810	3,085,962	7,023,349	9,580,372	3,880,603	1,904,615	586,738	1,448,506	846,452	1,844,025	6,946,124	6,846,401	45,399,956
Tuna, skipjack, black.....	---	---	---	---	---	---	---	---	---	---	1,000	1,000	1,000
Tuna, yellowfin.....	649,565	779,707	2,745,566	446,014	351,649	588,448	205,620	475,957	301,570	1,770,446	3,496,230	3,462,225	15,522,346
Total pounds.....	6,899,097	5,698,019	13,305,683	11,826,781	4,974,338	3,499,523	2,052,169	5,035,623	1,411,946	6,205,532	17,287,518	18,135,430	96,322,311
Grand total.....	47,254,540	34,781,147	47,492,195	46,514,909	39,929,322	41,182,088	29,601,175	26,459,194	19,964,930	47,200,250	47,248,129	42,404,871	469,609,748

\* For origin of shipments refer to Table 6. Beginning in 1965 only tuna shipments are recorded.

PISH RUMPTION 195

TABLE 13  
Monthly Landings and Shipments of Commercial Fish Into the Los Angeles Area During 1971

TABLE 14  
Monthly Landings and Shipments of Commercial Fish Into the San Diego Area During 1971

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds	FISH CATCH FOR 1971
<b>LANDINGS FROM:</b>														
California waters:														
Fish:														
Anchovy.....	79	74	337	941	4,280	929	130	.....	.....	.....	.....	153	46	
Baracuda, California.....	18	269	337	1,426	1,499	2,458	216	423	796	335	7,534	7,534	12,569	
Bonito, Pacific.....	2,805	4,682	9	608	378	688	1,321	493,833	578,610	2,330	275	1,055,411	32	
Cabazon.....	16	.....	.....	.....	.....	.....	.....	.....	.....	7	161	161	1,106	
Croaker, white.....	560	1,180	943	164	.....	29	.....	.....	39	161	197	3,173	32	
Flounder.....	.....	.....	.....	.....	.....	48	.....	.....	.....	.....	.....	.....	48	
Haddock.....	990	1,658	355	1,471	1,426	1,499	2,458	216	423	796	335	12,569	12,569	
Halibut, California.....	1,011	1,122	1,885	1,281	1,368	1,275	708	206	145	348	20	1,106	12,217	
Lingcod.....	69	25	73	.....	.....	183	9	8	22	.....	.....	.....	409	
Mackerel, jack.....	23	230	157	38	.....	301	21	8,940	10	.....	558	.....	10,353	
Mackerel, Pacific.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	460	
Opah.....	409	542	350	367	280	222	204	66	.....	.....	355	355	2,084	
Perch.....	409	170	206	654	866	1,283	2,175	853	857	2,347	887	275	10,811	
Rockfish.....	39,225	35,005	49,146	19,027	33,970	29,767	5,037	10,588	31,241	25,888	25,018	28,180	330,460	
Sablefish.....	.....	.....	.....	469	.....	.....	.....	.....	.....	.....	.....	.....	460	
Sardines.....	.....	.....	.....	.....	.....	30	71	63	.....	.....	171	171		
Sargo.....	.....	19,300	38,875	19,350	10,825	15,350	5,350	14,100	7,850	2,950	250	134,200	147	
Scombidae.....	5,498	4,145	788	885	146	1,883	5,198	3,966	7,790	4,316	2,781	3,023	40,123	
Sea bass, giant.....	35	.....	374	309	340	408	264	674	437	37	1,981	4,829		
Seabass, white.....	9,318	5,997	4,457	3,140	11,529	9,667	10,005	52,888	4,339	6,181	22,056	9,174	148,745	
Shark.....	5,911	5,342	3,777	1,316	16,939	22,395	37,711	15,593	26,707	20,657	12,621	10,618	179,534	
Shiner, California.....	.....	45	391	.....	91	909	172	100	.....	100	580	276	2,148	
Smelt.....	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	700	700		
Sole, miscellaneous.....	10	79	162	333	18	.....	101	274	37	61	12	32	1,109	
Sewfish.....	.....	.....	.....	.....	.....	311	1,118	27,850	19,198	18,041	4,555	71,082		
Tuna, bluefin.....	.....	.....	174	.....	38	319,471	121,870	571,720	7,890	14,038	885	1,045,173	99	
Tuna, skipjack.....	.....	.....	.....	.....	.....	.....	.....	.....	69	.....	215	215		
Tuna, yellowfin.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	700	700		
Whiting, green.....	273	115	299	63	663	124	102	380	86	60	2,126	2,126		
Yellowtail, California.....	2,801	787	92	722	1,701	2,610	631	814	635	8,425	9,201	1,551	26,533	
Miscellaneous.....	.....	.....	.....	16	287	111	13	.....	24	14	.....	335		

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TABLE 14  
Monthly Landings and Shipments of Commercial Fish Into the San Diego Area During 1971

TABLE 14—Continued

Monthly Landings and Shipments of Commercial Fish Into the San Diego Area During 1971—Continued

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
<b>Crustacean:</b>													
Crab, rock.....	2,849	5,034	2,796	1,620	301	69	57	17	162	1,107	1,010	2,788	18,800
Lobster, spiny.....	6,938	3,832	2,440	.....	.....	.....	.....	.....	.....	29,215	18,192	11,383	72,570
Miscellaneous crustacean.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30	.....	.....	30
<b>Mollusk:</b>													
Avalon.....	125,081	325	43,342	38,322	80,443	79,929	78,474	500	31,788	47,269	55,389	50,355	631,245
Squid.....	.....	533	784	276	.....	.....	.....	10	.....	.....	227	1,830	1,830
Total pounds.....	201,476	69,598	132,937	110,090	171,587	166,435	483,150	757,123	1,293,745	180,022	172,011	124,632	3,863,106
<b>Waters north of State:</b>													
<b>Fish:</b>													
Tuna, albacore.....	.....	.....	.....	.....	.....	.....	8,456	.....	.....	.....	.....	.....	8,456
Total pounds.....	.....	.....	.....	.....	.....	.....	8,456	.....	.....	.....	.....	.....	8,456
<b>Waters south of State:</b>													
<b>Fish:</b>													
Anchovy.....	.....	129	.....	28	.....	.....	.....	.....	.....	7	.....	174	40
Barracuda, California.....	16,294	17,963	45,881	16,782	102,584	271,342	2,472	27,512	467,580	180,088	29,177	91,184	1,429,630
Bonefish.....	.....	.....	.....	.....	30	.....	.....	.....	.....	.....	.....	30	.....
Croaker, white.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	109	.....	109
Dolphinfish.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hallibut, California.....	11	35	.....	.....	96	.....	.....	.....	.....	.....	.....	.....	46
Lingcod.....	.....	.....	49	.....	157	.....	.....	.....	.....	.....	.....	.....	96
Mackerel, jack.....	.....	.....	49	.....	157	.....	.....	.....	.....	.....	.....	.....	49
Mackerel, Pacific.....	.....	.....	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	157
Pompano, Pacific.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13	.....	13
Rockfish.....	93	49	14,263	1,081	4,191	7,619	94	555	3,256	3,062	8,585	4,097	47,005
Sole, sand.....	.....	23	18	2,141	27,311	33,104	25,133	1,094	1,018	35	35	35	35
Sea bass, giant.....	460	1,054	1,783	983	61	.....	.....	.....	.....	517	2,311	7,160	7,160
Sea bass, white.....	5,834	11,810	30,550	5,878	.....	.....	316	11,904	1,594	.....	5,941	10,492	84,519
Shark.....	10,043	3,282	962	2,420	.....	.....	.....	.....	.....	2,036	1,513	20,361	20,361
Shrimps, California.....	.....	22	.....	4	19	.....	.....	.....	21	83	4	4	226
Sole, rock.....	.....	10	.....	4	.....	.....	.....	.....	21	83	4	4	106
Swordfish.....	.....	.....	.....	.....	.....	.....	1,360	185	.....	.....	.....	.....	1,545
Tuna, albacore.....	.....	.....	.....	.....	53	2,603,414	1,739,218	154,020	251,388	61,574	11,759	4,842,365	4,842,365
Tuna, bigeye.....	.....	.....	52,086	44,262	.....	.....	.....	.....	.....	.....	122,906	210,254	210,254

FISH BULLETIN 159

TABLE 14

Monthly Landings and Shipments of Commercial Fish Into the San Diego Area During 1971

TABLE 14—*Cont'd.*

Tuna, bluefin.....	53,450	1,695,551	3,445,995	259,071	1,142,720	1,390,847	1,777,295	1,039,719	350,971	45,205	385,930	6,371,751
Tuna, albacore.....	876,110	4,360,513	5,671,117	4,655,308	1,652,551	5,621,562	3,129,485	2,642,742	671,968	227,812	407,757	834,446
Whiting, ocean.....	2,205	8,945	7,654	140	1,813	40	1,016	193	18	655	6,285	3,214
Yellowtail, California.....	.....	.....	.....	485	.....	.....	.....	.....	.....	.....	.....	485
<b>Crustacean:</b>												
Crab, rock.....	.....	.....	1,519	.....	.....	.....	.....	.....	.....	.....	.....	1,519
<b>Mollusk:</b>												
Squid.....	.....	.....	.....	66	41	.....	.....	8	.....	.....	.....	115
<b>SHIPMENTS:<sup>a</sup></b>												
<b>Fish:</b>												
Tuna, albacore.....	.....	.....	65,520	.....	.....	65,456	385,519	.....	115,988	.....	221,413	1,458,734
Tuna, bluefin.....	.....	.....	152,765	550,893	278,380	16,377	.....	160,730	201,301	111,201	1,398,968	2,175,518
Tuna, yellowfin.....	150,533	.....	.....	.....	203,142	.....	.....	203,099	317,171	.....	19,085	5,130,554
Total pounds.....	150,533	.....	218,288	550,893	482,022	81,833	385,519	583,838	942,966	111,201	1,638,466	1,901,342
Grand total.....	1,325,527	7,123,027	9,018,348	10,085,591	3,045,854	10,288,942	10,004,702	6,339,805	5,557,013	2,586,136	5,104,880	7,213,055
												78,292,760

\* For origin of shipments refer to Table 6. Beginning in 1965 only tuna shipments are recorded.

TABLE 15  
Value of Landings and Shipments of Commercial Fish Into California by Area, 1971

Species	Eureka	San Francisco*	Monterey	Santa Barbara	Los Angeles	San Diego	Total
<b>LANDINGS</b>							
<b>Fish:</b>							
Anchovy.....	318,688	2,409,040	19,721,639	67,255,374	327	89,705,068	
	\$35,056	\$29,572	\$268,214	\$759,986	\$54	\$1,093,182	
Barrauda, California .....	---	---	372	8,998	7,894	17,284	
Blackfish, Sacramento.....	320,258	---	\$129	\$3,015	\$2,451	350,98	
Blacksmith.....	\$104,980	---	---	---	---	\$104,980	
Bonito, Pacific.....	390	5,172	16,777	619,795	17,111,661	2,515,189	20,268,984
	\$66	\$321	\$933	\$48,902	\$1,558,873	\$232,152	\$1,841,247
Cabezon.....	51	135	2,570	1,730	32	4,518	
	\$2	\$20	\$210	\$152	\$4	\$388	
Carp.....	271,870	---	---	6,766	---	278,636	
	\$36,919	99,192	248	\$970	\$37,889		
Croaker, white.....	4,754	---	227,028	3,203	334,425		
	\$524	\$6,123	\$25	\$16,371	\$386	\$24,250	
Dolphinfish.....	---	---	---	730	109	89	
Flounder.....	125,622	120,308	32,893	15,013	9	46	293,890
	\$6,947	\$8,542	\$3,515	\$1,492	\$2	\$12	\$20,510
Flounder, arrowtooth.....	2,446	215	---	---	---	2,661	
	\$157	\$9	---	---	---	\$166	
Flyingfish.....	---	---	---	160,266	---	160,266	
Hake, Pacific.....	15,775	600	18,310	---	\$23,976	---	23,976
	\$686	\$9	\$366	---	---	34,685	
Halfmoon.....	---	---	---	10,526	12,596	23,122	
Halibut, California.....	71	63,664	47,812	134,198	\$2,623	\$2,947	\$5,570
	\$25	\$18,564	\$16,514	\$54,859	\$30,599	\$5,691	\$126,252
Halibut, Pacific.....	25	---	---	---	---	25	
Herring, Pacific.....	\$10	1,200	---	---	---	1,200	
	\$6,597	\$12,137	---	---	---	\$18,734	
Hitch.....	---	1,200	---	---	---	1,200	
	\$336	---	---	---	---	\$336	
Lingcod.....	1,174,250	429,881	264,299	225,857	3,157	508	2,097,949
	\$113,314	\$35,592	\$20,178	\$22,451	\$362	\$59	\$200,956
Mackerel, jack.....	1,181	163,746	2,295,898	57,411,853	10,307	59,682,985	
	\$65	\$9,759	\$91,836	\$2,313,697	\$544	\$2,415,901	
Mackerel, Pacific.....	---	---	71	153,531	2,245	155,847	
Mudsucker, longjaw.....	1,948	---	---	\$4	\$7,230	\$328	\$7,562
	\$3,766	---	---	---	---	1,948	
Opaleye.....	---	---	---	3,217	2,064	5,281	
	---	---	---	\$672	\$282	\$954	
Perch.....	73,456	45,081	29,174	11,417	14,999	10,811	184,938
	\$14,262	\$15,154	\$4,997	\$3,059	\$3,028	\$2,249	\$42,749
Pompano, Pacific.....	4,842	1,478	175,798	13	181,931		
	\$2,610	\$361	\$40,679	\$3	\$43,653		
Rockfish.....	4,779,965	1,245,989	2,398,283	1,915,762	451,216	377,531	11,168,746
	\$306,455	\$97,401	\$209,969	\$155,026	\$92,709	\$80,328	\$94,888
Sablefish.....	2,582,968	641,779	1,197,695	830	731	466	4,424,463
	\$178,999	\$32,558	\$78,445	\$33	\$92	\$46	\$290,156
Salmon.....	5,633,210	2,112,796	20,077,2	100,100	---	---	8,116,778
	\$3,042,740	\$1,450,841	\$189,770	\$73,623	---	---	\$1,479,974
Sanddab.....	441,383	252,904	88,189	1,286	488	171	785,401
	\$46,698	\$27,719	\$8,705	\$64	\$99	\$46	\$83,331
Sardine.....	---	---	---	163,688	134,200	297,886	
	---	---	---	\$35,160	\$33,550	\$68,710	
Sargo.....	---	---	287	147	434		
	---	---	\$66	\$15	\$81		
Sculpin.....	---	---	1,886	129,258	131,144		
	---	---	\$693	\$41,402	\$42,095		
Sea bass, giant.....	876	104,393	11,988	11,258			
	\$202	\$23,947	\$5,190	\$27,339			
Seabass, white.....	2,284	166,885	421,451	233,264	823,884		
	\$1,102	\$36,885	\$1,207	\$99,448	\$1,207		
Shark.....	692	46,303	9,171	44,335	120,939	159,895	421,335
	\$49	\$2,426	\$574	\$5,629	\$16,080	\$20,982	\$63,610
Sheephead, California.....	---	---	410	6,070	2,374	8,854	
	---	---	\$48	\$607	\$352	\$1,007	
Skate.....	11,527	4,545	44,980	181	---	61,233	
	\$117	\$1,007	\$15	---	---	\$1,139	
Smelt.....	167,866	49,175	23,461	74	107,817	8	348,401
	\$13,281	\$5,802	\$3,204	\$7	\$5,785	\$1	\$28,080
Smelt, whitebait.....	140,108	6,644	---	---	---	146,752	
	\$15,594	\$817	---	---	---	\$10,411	
Sole, Dover.....	12,541,882	1,624,991	59,735	22,111	---	14,248,719	
	\$1,053,518	\$119,112	\$3,751	\$1,793	---	\$1,178,174	

TABLE 15  
Value of Landings and Shipments of Commercial Fish Into California by Area, 1971

TABLE 15—Continued  
Value of Landings and Shipments of Commercial Fish Into California by Area, 1971—Continued

Species	Eureka	San Francisco*	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Sole, English.....	1,192,256	1,048,510	311,673	409,196	2,380	—	2,964,015
	\$130,195	\$112,505	\$33,474	\$39,364	\$286	—	\$315,824
Sole, petrale.....	1,657,464	1,379,557	239,337	411,791	16,235	—	3,704,384
	\$273,812	\$225,419	\$40,902	\$67,739	\$2,760	—	\$610,632
Sole, rex.....	1,049,338	260,050	108,725	49,762	—	—	1,467,875
	\$121,092	\$30,842	\$11,797	\$5,693	—	—	\$169,424
Sole, sand.....	110,856	144,425	7,270	29,866	—	—	292,417
	\$12,738	\$17,895	\$921	\$4,178	—	—	\$35,702
Sole, miscellaneous.....	—	13	5,617	500	184	1,215	15,495
	—	\$2	\$594	\$1,041	\$44	\$193	\$294
Swordfish.....	—	—	28,349	53,542	72,627	—	154,518
	—	—	\$15,272	\$27,033	\$43,859	\$16,164	\$86,164
Tuna, albacore.....	3,079,824	6,995,840	10,335,870	3,402,926	6,403,280	5,898,994	36,116,734
	\$893,764	\$2,060,975	\$3,049,081	\$1,004,544	\$2,018,314	\$1,849,925	\$10,876,603
Tuna, bigeye.....	—	—	—	1,586,784	219,254	1,806,038	—
	—	—	—	\$332,907	\$45,714	\$378,621	—
Tuna, bluefin.....	—	—	—	10,879,116	6,371,850	17,250,966	—
	—	—	—	\$2,263,945	\$1,274,370	\$3,558,315	—
Tuna, skipjack.....	—	—	—	75,015,296	23,362,342	101,377,638	—
	—	—	—	\$14,339,212	\$4,289,326	\$18,628,538	—
Tuna, yellowfin.....	—	—	—	122,445,911	28,495,200	150,941,111	—
	—	—	—	\$25,517,727	\$5,924,152	\$31,441,879	—
Turbot.....	1,840	4,440	15	18,587	—	—	24,222
	\$191	\$232	\$2	\$1,472	—	—	\$1,807
Wahoo.....	—	—	—	230	—	—	230
	—	—	—	\$46	—	—	\$46
Whitefish, ocean.....	—	—	23	1,072	2,611	3,706	—
	—	—	\$2	\$102	\$319	\$423	—
Yellowtail, California.....	—	—	30	332,794	57,696	390,520	—
	—	—	\$4	\$37,673	\$7,160	• 9,866	—
Frog.....	8,446	1,420	—	—	—	—	\$6,318
	\$4,699	\$1,619	—	—	—	—	\$1,699
Miscellaneous.....	281	316	74	30	133	335	1,169
	\$44	\$141	\$4	\$35	\$98	\$322	—
Miscellaneous (animal food).....	407,926	6,010	1,400	573,827	—	—	989,183
	\$8,158	\$120	\$21	\$11,476	—	—	\$19,775
<b>Crustacean:</b>							
Crab, market.....	9,272,969	384,482	553	4,261	—	—	9,662,265
	\$2,665,051	\$154,024	\$247	\$2,029	—	—	\$2,821,351
Crab, rock.....	1,740	—	524	159,853	360,296	20,319	542,732
	—	—	\$27	\$14,468	\$51,522	\$2,869	\$68,886
Crayfish.....	137,966	—	—	—	—	—	137,966
	\$55,358	—	—	—	—	—	\$55,358
Lobster, spiny.....	—	—	78,383	73,553	72,570	224,486	—
	—	—	\$106,590	\$103,445	\$98,245	\$308,680	—
Prawn, spot.....	—	11,747	26	—	—	—	11,773
	—	\$11,263	\$32	—	—	—	\$11,955
Shrimp, bay.....	1,899	—	—	—	—	—	1,899
	\$966	—	—	—	—	—	\$966
Shrimp, ocean.....	3,077,773	700	—	2,110	—	—	3,080,583
	\$400,110	\$91	—	\$253	—	—	\$400,454
Miscellaneous crustacean.....	—	—	—	—	—	30	30
	—	—	—	—	—	\$12	\$12
<b>Echinoderm:</b>							
Sea star.....	—	450	—	—	—	—	450
	—	\$119	—	—	—	—	\$119
Sea urchin.....	—	—	—	200	—	—	200
	—	—	—	\$36	—	—	\$36
<b>Mollusk:</b>							
Abalone.....	—	25,116	167	1,401,326	887,464	631,245	2,945,318
	—	\$10,606	\$60	\$509,728	\$247,503	\$185,250	\$953,147
Clam, unclassified.....	28	120	17	—	—	—	165
	\$4	\$300	\$5	—	—	—	\$309
Mussel.....	—	—	988	—	—	—	988
	—	—	\$17	—	—	—	\$17
Octopus.....	829	657	318	—	—	—	1,804
	\$56	\$15	\$80	—	—	—	\$181
Oyster, eastern.....	—	13,852	—	—	—	—	13,852
	—	\$40,725	—	—	—	—	\$40,725
Oyster, giant Pacific.....	692,515	198,385	—	74,074	—	—	964,974
	\$602,488	\$172,594	—	\$64,444	—	—	\$839,526
Squid.....	197	—	16,646,423	6,683,735	8,185,108	1,945	31,517,408
	\$10	—	\$512,709	\$96,914	\$150,605	\$200	\$760,438
Total pounds.....	48,221,748	18,215,126	35,060,753	38,635,677	373,287,437	68,875,134	582,295,875
Total value.....	\$9,899,830	\$4,891,532	\$4,275,910	\$2,736,567	\$50,196,438	\$14,265,923	\$86,266,200

TABLE 15  
Value of Landings and Shipments of Commercial Fish Into California by Area, 1971

TABLE 15—Continued  
Value of Landings and Shipments of Commercial Fish Into California by Area, 1971—Continued

Species	Eureka	San Francisco*	Monterey	Santa Barbara	Los Angeles	San Diego	Total
<b>SHIPMENTS:†</b>							
Fish:							
Tuna, albacore.....	---	---	---	29,817,213	2,196,642	32,013,855	
				\$11,014,478	\$783,762	\$11,798,240	
				65,019	---	65,019	
Tuna, bigeye.....	---	---	---	15,143	---	15,143	
					115,088	2,577,065	
Tuna, bluefin.....	---	---	---	2,461,977	115,088	2,577,065	
				\$645,776	\$23,018	\$668,794	
Tuna, skipjack.....	---	---	---	48,399,956	5,184,554	53,564,510	
				\$10,773,830	\$1,167,706	\$11,941,536	
Tuna, skipjack, black..	---	---	---	15,522,346	1,901,342	17,423,688	
				\$4,267,093	\$502,144	\$4,769,237	
Total pounds.....	---	---	---	96,322,311	9,377,626	105,699,937	
Total value.....	---	---	---	\$26,721,018	\$2,476,630	\$29,197,648	
<b>GRAND TOTAL POUNDS</b>	<b>48,221,748</b>	<b>18,215,126</b>	<b>35,060,753</b>	<b>38,635,677</b>	<b>469,609,748</b>	<b>78,252,760</b>	<b>687,995,812</b>
<b>GRAND TOTAL VALUE</b>	<b>\$9,890,830</b>	<b>\$4,891,532</b>	<b>\$4,275,910</b>	<b>\$2,736,567</b>	<b>\$76,917,456</b>	<b>\$16,742,553</b>	<b>\$115,463,848</b>

\* Includes Sacramento area landings.

† For origin of shipments refer to Table 6. Beginning in 1965 only tuna shipments are recorded.

TABLE 15  
Value of Landings and Shipments of Commercial Fish Into California by Area, 1971

**TABLE 16**  
**Value of Landings by Port, Eureka Area, 1971**

	Pounds	Value
<b>Eureka</b>		
Salmon.....	2,066,662	1,144,634
Market crab.....	3,507,960	1,008,187
Dover sole.....	7,706,463	647,343
Giant Pacific oyster.....	692,515	602,488
Albacore.....	1,792,920	520,305
Rockfish.....	2,378,870	148,309
Petrale sole.....	818,839	135,572
Rex sole.....	649,601	74,963
Sablefish.....	1,002,900	69,501
English sole.....	579,625	63,295
Ocean shrimp.....	292,954	38,084
Lingcod.....	352,570	34,022
Sanddab.....	315,907	33,423
Smelt.....	131,289	10,469
Whitebait smelt.....	84,325	9,385
Perch.....	44,749	8,905
Miscellaneous (animal food).....	407,926	8,158
Sand sole.....	21,064	2,420
All other species.....	34,644	1,326
Port totals.....	22,881,783	\$4,560,489
<b>Crescent City</b>		
Market crab.....	4,947,055	\$1,421,784
Salmon.....	1,154,159	612,978
Ocean shrimp.....	2,784,294	361,958
Dover sole.....	2,311,419	194,159
Albacore.....	591,012	171,512
Rockfish.....	1,246,209	82,396
Petrale sole.....	351,916	58,136
Lingcod.....	471,829	45,531
English sole.....	384,511	41,989
Rex sole.....	198,407	22,896
Sablefish.....	239,686	16,610
Sanddab.....	114,272	12,090
Sand sole.....	89,657	10,302
Flounder.....	106,717	5,901
Perch.....	28,021	5,237
Whitebait smelt.....	38,802	4,319
Smelt.....	20,982	1,487
All other species.....	954	108
Port totals.....	15,079,902	\$3,069,393
<b>Fort Bragg</b>		
Salmon.....	2,024,635	\$1,085,608
Dover sole.....	2,524,000	212,016
Albacore.....	692,798	201,050
Sablefish.....	1,340,382	92,888
Market crab.....	307,237	88,300
Petrale sole.....	486,709	80,404
Rockfish.....	1,148,432	75,313
Lingcod.....	348,849	33,664
English sole.....	228,120	24,011
Rex sole.....	201,330	23,233
Whitebait smelt.....	16,981	1,890
Sanddab.....	11,204	1,185
All other species.....	13,819	1,159
Port totals.....	9,344,496	\$1,921,621
<b>Trinidad</b>		
Market crab.....	510,717	\$146,780
Salmon.....	160,123	77,457
All other species.....	1,073	311
Port totals.....	671,913	\$224,548

**TABLE 16**  
**Value of Landings by Port, Eureka Area, 1971**

TABLE 16—Continued  
*Value of Landings by Port, Eureka Area, 1971—Continued*

	Pounds	Value
<b>Albion</b>		
Salmon.....	202,149	\$109,944
All other species.....	8,878	1,065
Port totals.....	211,027	\$111,009
<b>All other ports</b>		
Salmon.....	25,482	\$12,119
All other species.....	7,145	651
Totals.....	32,627	\$12,770
<b>EUREKA AREA TOTALS.....</b>	<b>48,221,748</b>	<b>\$9,899,830</b>

TABLE 16  
*Value of Landings by Port, Eureka Area, 1971*

TABLE 17  
Value of Landings by Port, San Francisco Area, 1971 \*

	Pounds	Value
<b>Bodega Bay</b>		
Salmon.....	794,166	\$527,338
Albacore.....	866,567	255,291
English sole.....	536,620	57,579
Market crab.....	111,540	44,683
Petrale sole.....	243,819	39,840
Rockfish.....	392,538	34,253
Dover sole.....	212,112	15,548
Lingcod.....	180,163	14,917
Rex sole.....	103,429	12,267
Sablefish.....	107,190	5,434
Sanddab.....	47,209	5,174
Smelt.....	36,085	4,144
Flounder.....	35,880	2,547
Perch.....	6,203	1,298
All other species.....	13,773	1,327
Port totals.....	3,687,294	\$1,021,640
<b>San Francisco</b>		
Albacore.....	822,538	242,320
Petrale sole.....	1,108,382	181,110
Salmon.....	211,329	151,957
Dover sole.....	1,293,586	94,820
Market crab.....	177,203	70,988
Rockfish.....	806,534	59,753
English sole.....	505,760	54,268
Sablefish.....	506,091	25,659
Sanddab.....	202,970	22,246
Lingcod.....	233,072	19,298
Rex sole.....	154,186	18,286
Saint sole.....	141,580	17,513
California halibut.....	23,307	6,796
Flounder.....	79,140	5,619
Perch.....	7,758	2,785
Shark.....	20,155	1,026
All other species.....	34,287	1,619
Port totals.....	6,327,878	\$976,063
<b>Sausalito</b>		
Albacore.....	2,646,163	\$779,560
Salmon.....	224,848	155,044
Anchovy.....	318,688	35,056
Pacific herring.....	6,890	2,439
Dover sole.....	16,806	1,232
All other species.....	21,029	1,746
Port totals.....	3,234,424	\$975,077
<b>Oakland</b>		
Albacore.....	2,659,384	\$783,454
Salmon.....	85,972	57,705
Dover sole.....	102,092	7,483
Sablefish.....	19,924	1,010
All other species.....	15,641	1,785
Port totals.....	2,883,013	\$851,437
<b>Point Reyes</b>		
Salmon.....	439,962	\$298,321
Giant Pacific oyster.....	169,355	147,339
Market crab.....	44,086	17,661
All other species.....	3,918	368
Port totals.....	657,321	\$463,689
<b>Princeton</b>		
Salmon.....	336,482	\$245,883
Market crab.....	43,099	17,590
California halibut.....	39,059	11,652
Abalone.....	24,949	10,536
Petrale sole.....	23,870	3,900

TABLE 17  
Value of Landings by Port, San Francisco Area, 1971

TABLE 17—Continued  
Value of Landings by Port, San Francisco Area, 1971 \*—Continued

	Pounds	Value
<b>Princeton—Continued</b>		
Rockfish.....	24,129	\$2,039
Lingcod.....	12,524	1,037
All other species.....	46,301	3,996
Port totals.....	552,123	\$296,633
<b>Clear Lake</b>		
Sacramento blackfish.....	317,266	\$104,000
Carp.....	267,843	36,373
Port totals.....	585,109	\$140,373
<b>Tomales Bay</b>		
Eastern oyster.....	13,852	\$40,725
Giant Pacific oyster.....	29,030	25,355
Pacific herring.....	11,746	4,158
Smelt.....	7,799	1,008
All other species.....	5,303	905
Port totals.....	70,730	\$72,051
<b>Berkeley</b>		
Salmon.....	17,796	\$12,977
Frog.....	4,614	2,590
Market crab.....	3,063	1,227
All other species.....	6,146	2,653
Port totals.....	31,619	\$19,447
<b>Richmond</b>		
Perch.....	23,659	\$8,433
Market crab.....	2,816	1,128
Salmon.....	1,456	1,053
All other species.....	3,722	402
Port totals.....	31,653	\$11,016
<b>All other ports</b>		
Crayfish.....	136,829	\$54,540
Longjaw mudsucker.....	1,948	3,766
Frog.....	3,832	2,109
All other species.....	11,353	3,691
Totals.....	153,962	\$64,106
<b>SAN FRANCISCO AREA TOTALS.....</b>	<b>18,215,126</b>	<b>\$4,891,532</b>

\* Includes Sacramento area landings.

TABLE 17  
Value of Landings by Port, San Francisco Area, 1971

TABLE 18  
Value of Landings by Port, Monterey Area, 1971

	Pounds	Value
<b>Moss Landing</b>		
Albacore.....	7,735,401	\$2,281,943
Salmon.....	217,266	151,863
Squid.....	1,984,625	61,126
Anchovy.....	2,341,640	29,036
Pacific herring.....	207,550	11,332
English sole.....	88,089	9,461
Rockfish.....	77,403	9,248
Petrale sole.....	52,107	8,905
Jack mackerel.....	79,189	4,720
Sanddab.....	37,622	3,672
Lingcod.....	28,722	3,171
Sablefish.....	43,440	2,845
Smelt.....	18,843	2,599
White croaker.....	16,775	1,171
Dover sole.....	18,470	1,160
All other species.....	49,955	4,561
Port totals.....	12,997,997	\$2,586,813
<b>Monterey</b>		
Albacore.....	2,555,857	\$753,978
Salmon.....	14,601,798	451,553
Rockfish.....	2,295,949	198,039
Sablefish.....	1,151,637	75,432
Petrale sole.....	187,210	31,994
English sole.....	223,584	24,013
Lingcod.....	196,907	21,738
Salmon.....	30,128	21,393
Rex sole.....	106,965	11,606
Spot prawn.....	11,747	11,263
California halibut.....	25,212	8,708
White croaker.....	72,186	5,038
Jack mackerel.....	84,484	5,035
Sanddab.....	50,401	4,919
Perch.....	27,984	4,819
Dover sole.....	41,265	2,591
Anchovy.....	67,400	836
All other species.....	69,794	4,329
Port totals.....	21,860,508	\$1,637,314
<b>Santa Cruz</b>		
Salmon.....	23,378	\$16,514
Albacore.....	44,612	13,160
California halibut.....	19,792	6,836
Lingcod.....	38,670	4,269
Rockfish.....	24,931	2,682
Pacific pompano.....	3,786	2,129
Flounder.....	16,600	1,774
All other species.....	29,959	2,800
Port totals.....	201,728	\$50,164
<b>All other ports</b>		
Frog.....	1,420	\$1,619
Totals.....	1,420	\$1,619
<b>MONTEREY AREA TOTALS.....</b>	<b>35,060,753</b>	<b>\$4,275,910</b>

TABLE 18  
Value of Landings by Port, Monterey Area, 1971

TABLE 19  
Value of Landings by Port, Santa Barbara Area, 1971

	Pounds	Value
<b>Morro Bay</b>		
Albacore.....	3,205,012	\$946,120
Abalone.....	191,487	71,218
Rockfish.....	810,797	67,142
Giant Pacific oyster.....	74,074	64,444
Salmon.....	39,592	29,884
Lingcod.....	145,499	14,463
Petrale sole.....	84,822	13,953
California halibut.....	12,902	5,274
Spiny lobster.....	2,341	3,196
English sole.....	30,845	2,967
White seabass.....	5,662	2,124
Miscellaneous (animal food).....	94,650	1,893
Perch.....	6,536	1,732
Rex sole.....	13,735	1,571
Rock crab.....	16,374	1,482
Market crab.....	2,433	1,159
All other species.....	23,266	2,162
Port totals.....	4,760,027	\$1,230,784
<b>Santa Barbara</b>		
Abalone.....	1,070,397	\$387,668
Rockfish.....	809,574	63,390
Spiny lobster.....	39,255	53,595
White seabass.....	120,222	45,095
Petrale sole.....	204,237	33,597
Pacific bonito.....	423,601	33,422
English sole.....	297,175	28,588
California halibut.....	44,985	18,390
Rock crab.....	129,422	11,713
Swordfish.....	19,276	10,384
Miscellaneous (animal food).....	359,550	7,191
Lingcod.....	36,175	3,596
Rex sole.....	30,810	3,525
Salmon.....	4,625	3,421
Shark.....	16,017	2,053
Albacore.....	3,679	1,086
All other species.....	33,144	2,242
Port totals.....	3,642,144	\$708,956
<b>Port Hueneme</b>		
Anchovy.....	19,718,380	\$268,170
Squid.....	6,682,735	96,914
Jack mackerel.....	2,295,898	91,836
California halibut.....	34,983	14,301
Pacific bonito.....	176,180	13,901
Abalone.....	6,121	2,287
Turbot.....	18,547	1,469
Shark.....	8,130	1,053
All other species.....	9,842	2,392
Port totals.....	28,951,816	\$492,323
<b>Avila</b>		
Albacore.....	192,850	\$56,929
Abalone.....	112,269	41,899
Salmon.....	55,730	40,205
Rockfish.....	279,820	22,376
Petrale sole.....	120,678	19,852
White seabass.....	38,090	14,288
English sole.....	80,015	7,697
Lingcod.....	44,183	4,392
Sand sole.....	29,796	4,168
California halibut.....	9,858	4,030

TABLE 19  
Value of Landings by Port, Santa Barbara Area, 1971

TABLE 19—Continued  
Value of Landings by Port, Santa Barbara Area, 1971—continued

	Pounds	Value
<b>Avila—Continued</b>		
Miscellaneous (animal food).....	119,627	\$2,392
Pioneder.....	14,620	1,453
Swordfish.....	2,653	1,429
Perch.....	4,476	1,234
All other species.....	34,456	3,785
Port totals.....	1,139,121	\$226,129
<b>Oxnard and Ventura</b>		
Spiny lobster.....	36,068	\$49,244
California halibut.....	31,470	12,864
Abalone.....	21,052	6,656
Swordfish.....	5,823	3,137
Rockfish.....	14,101	2,006
Shark.....	13,591	1,725
All other species.....	20,464	2,743
Port totals.....	142,569	\$78,375
<b>SANTA BARBARA AREA TOTALS.....</b>	<b>38,635,677</b>	<b>\$2,736,567</b>

TABLE 19  
Value of Landings by Port, Santa Barbara Area, 1971

TABLE 20  
Value of Landings and Shipments by Port, Los Angeles Area, 1971

	Pounds	Value
<b>Terminal Island</b>		
<b>Landings:</b>		
Yellowfin tuna.....	122,197,011	\$25,465,857
Skipjack tuna.....	78,011,516	14,338,517
Bluefin tuna.....	10,095,500	2,100,874
Albacore.....	6,354,257	2,002,862
Jack mackerel.....	48,264,759	1,945,070
Pacific bonito.....	15,320,207	1,385,671
Anchovy.....	64,827,700	732,553
Bigeye tuna.....	1,586,784	332,067
Squid.....	1,319,675	24,282
Pacific mackerel.....	124,086	5,844
Total landings.....	348,101,495	\$48,344,437
<b>Shipments:</b> *		
Albacore.....	29,817,213	\$11,014,478
Skipjack tuna.....	48,399,956	10,773,830
Yellowfin tuna.....	15,522,346	4,267,093
Bluefin tuna.....	2,461,977	645,776
Bigeye tuna.....	65,019	15,143
Black skipjack tuna.....	50,800	4,277
Total shipments.....	96,317,311	\$26,720,597
Port totals.....	444,418,806	\$75,065,034
<b>San Pedro</b>		
<b>Landings:</b>		
Abalone.....	880,004	\$245,149
Jack mackerel.....	5,385,391	217,031
Pacific bonito.....	1,790,382	163,104
Bluefin tuna.....	783,540	163,055
White seabass.....	394,210	153,387
Squid.....	6,550,700	126,218
Rockfish.....	342,537	69,249
Spiny lobster.....	44,092	62,011
Yellowfin tuna.....	248,774	51,844
Pacific Pompano.....	175,693	40,655
California yellowtail.....	330,124	37,370
Sardine.....	163,686	35,160
Rock crab.....	241,631	34,553
California halibut.....	78,522	30,466
Giant sea bass.....	104,343	23,936
Flyingfish.....	158,415	23,699
Swordfish.....	43,667	22,047
Anchovy.....	1,863,350	21,056
Shark.....	116,412	16,572
White croaker.....	226,978	16,370
Albacore.....	39,810	12,548
Smelt.....	107,817	5,785
California barracuda.....	8,737	2,028
Petrale sole.....	16,235	2,760
Halfmoon.....	8,351	2,081
Perch.....	10,093	2,046
Pacific mackerel.....	29,434	1,386
All other species.....	65,398	4,722
Port totals.....	20,517,326	\$1,587,188
<b>Wilmington</b>		
<b>Landings:</b>		
Jack mackerel.....	3,761,477	\$151,588
Anchovy.....	426,128	4,815
All other species.....	5,733	105
Total landings.....	4,193,338	\$156,508

TABLE 20  
Value of Landings and Shipments by Port, Los Angeles Area, 1971

TABLE 20—Continued  
Value of Landings and Shipments by Port, Los Angeles Area, 1971—Continued

	Pounds	Value
<b>Shipments:*</b>		
All other species.....	5,000	\$421
Total shipments.....	5,000	\$421
Port totals.....	4,198,338	\$156,929
<b>Long Beach</b>		
<b>Landings:</b>		
Spiny lobster.....	18,259	\$25,679
Rockfish.....	55,366	12,770
Anchovy.....	138,196	1,562
Swordfish.....	2,644	1,335
All other species.....	11,585	2,464
Port totals.....	226,050	\$43,810
<b>Newport Beach</b>		
<b>Landings:</b>		
White seabass.....	21,812	\$8,487
Rockfish.....	30,956	6,853
Spiny lobster.....	3,300	4,641
Swordfish.....	6,983	3,526
Albacore.....	8,458	2,666
All other species.....	5,534	580
Port totals.....	77,043	\$26,753
<b>Redondo Beach</b>		
<b>Landings:</b>		
Rock crab.....	118,534	\$16,950
Spiny lobster.....	1,473	2,072
All other species.....	2,714	515
Port totals.....	122,721	\$19,537
<b>Santa Monica</b>		
<b>Landings:</b>		
Rockfish.....	20,727	\$3,474
White seabass.....	5,355	2,084
Spiny lobster.....	1,028	1,446
All other species.....	2,717	640
Port totals.....	29,827	\$7,644
<b>All other ports</b>		
<b>Landings:</b>		
Spiny lobster.....	5,401	\$7,596
Abalone.....	3,681	1,270
All other species.....	10,555	1,695
Totals.....	19,637	\$10,561
<b>LOS ANGELES AREA TOTALS</b>	<b>469,609,748</b>	<b>\$76,917,456</b>

\* Beginning in 1965 only tuna shipments are recorded.

TABLE 20  
Value of Landings and Shipments by Port, Los Angeles Area, 1971

TABLE 21  
Value of Landings and Shipments by Port, San Diego Area, 1971

	Pounds	Value
<b>San Diego</b>		
<b>Landings:</b>		
Yellowfin tuna.....	28,495,200	\$5,924,152
Skipjack tuna.....	23,362,342	4,289,326
Pacific bonito.....	2,509,631	231,639
Albacore.....	5,892,626	1,847,928
Bluefin tuna.....	6,371,850	1,274,370
Abalone.....	627,567	184,232
White seabass.....	222,529	95,376
Spiny lobster.....	63,995	86,636
Rockfish.....	346,048	73,585
Bigeye tuna.....	219,254	45,714
Swordfish.....	72,627	43,859
Sculpin.....	129,016	41,324
Sardine.....	134,200	33,550
Shark.....	147,860	28,117
California yellowtail.....	53,588	6,650
Giant sea bass.....	11,451	3,047
California halibut.....	6,513	3,023
California barracuda.....	7,172	2,230
Perch.....	9,857	2,051
Rock crab.....	14,123	1,994
Halfmoon.....	6,758	1,581
All other species.....	22,992	2,407
Total landings.....	68,727,199	\$14,222,791
<b>Shipments:</b> *		
Skipjack tuna.....	5,164,554	\$1,167,706
Albacore.....	2,196,642	783,762
Yellowfin tuna.....	1,901,342	502,144
Bluefin tuna.....	115,088	23,018
Total shipments.....	9,377,626	\$2,476,630
Port totals.....	78,104,825	\$16,699,421
<b>Oceanside</b>		
<b>Landings:</b>		
Spiny lobster.....	8,117	\$10,989
Shark.....	52,035	9,865
Rockfish.....	31,041	6,648
White seabass.....	10,369	4,444
California halibut.....	5,750	2,668
Albacore.....	6,368	1,997
Halfmoon.....	5,838	1,366
All other species.....	26,911	4,198
Port totals.....	146,429	\$42,175
<b>All other ports</b>		
All other species.....	1,506	\$957
Totals.....	1,506	\$957
<b>SAN DIEGO AREA TOTALS</b> .....	78,252,760	\$16,742,553

\* Beginning in 1965 only tuna shipments are recorded.

TABLE 21  
Value of Landings and Shipments by Port, San Diego Area, 1971

TABLE 22  
Statewide Commercial Partyboat Catch by Species  
(Not including anchored barges)  
1962-1971 \*

Species	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
Barracuda, California.....	335,407	483,699	303,070	443,304	892,697	470,480	372,246	358,518	373,801	40,474
Bass, striped, sand.....	70,461	43,474	11,407	12,013	1,272,113	9,307	11,777	12,347	9,977	9,411
Bonito, Pacific.....	708,735	775,719	1,208,504	808,322	644,415	349,052	1,102,656	1,150,241	651,868	182,755
Cabazon, California.....	4,538	9,726	6,491	7,675	10,293	5,119	4,349	4,583	6,372	4,011
Herring, California.....	118,566	126,459	116,456	116,513	32,353	65,532	25,534	26,544	16,598	16,598
Lingcod.....	25,369	27,413	25,263	33,269	41,676	43,859	42,449	32,693	61,533	63,239
Mackerel, jack.....	9,029	9,342	6,277	25,619	19,027	16,236	13,588	11,272	15,725	10,611
Mackerel, Pacific.....	116,738	146,560	101,219	151,596	205,099	108,366	78,933	120,656	129,770	221,223
Rockfish.....	654,433	943,453	901,431	1,581,530	1,605,150	1,881,127	2,107,127	1,979,179	2,224,353	2,224,353
Salmon.....	87,012	72,457	92,021	51,677	70,151	84,046	127,584	111,389	98,301	130,812
Sole.....	33,314	53,896	73,544	71,888	69,551	63,280	59,863	63,011	82,522	84,913
Sebastus, white.....	14,564	19,800	14,501	9,775	3,972	3,385	4,138	4,043	4,359	5,365
Sheepshead, California.....	13,378	14,348	24,273	41,481	26,449	24,278	24,489	24,589	25,589	30,361
Tuna, albacore.....	200,314	158,372	112,358	99,771	74,689	96,497	129,710	48,887	112,106	160,361
Tuna, bluefin.....	2,453	737	693	92	1,968	3,166	1,231	1,470	1,833	749
Whitefish, ocean.....	6,157	6,231	6,049	13,810	15,587	18,184	22,155	38,474	40,990	29,800
Yellowtail, California.....	21,329	45,705	39,104	15,367	80,163	31,302	28,949	29,202	47,376	44,608
All others.....	92,770	142,260	111,400	185,268	166,470	145,073	205,410	421,267	295,579	421,729
Total number of fish.....	3,655,993	4,278,502	4,454,176	4,634,558	5,408,420	4,444,164	5,731,201	5,725,575	5,630,835	4,604,152
Number of anglers.....	595,866	643,155	605,445	688,103	857,000	780,102	849,654	802,811	873,327	728,128

\* See Fish Bulletin No. 121 for historical records 1936-1961.

TABLE 22  
Statewide Commercial Partyboat Catch by Species (Not including anchored barges) 1962-1971

**TABLE 23**  
**Inshore Bait Landings by Area  
 Pounds and Value  
 1971**

Species	Sacramento	San Francisco and Monterey	Los Angeles	San Diego	Statewide*
Clam					
Freshwater	525,568	---	---	---	525,568
	\$44,834	---	---	---	\$44,834
Gaper	---	---	---	---	294
	---	---	---	---	74
Jackknife	---	40,561	10,411	5,920	50,972
	---	\$25,921	\$5,920	\$31,850	
Pencil	---	---	---	---	259
	---	---	---	---	777
Purple	---	55	9,788	9,843	
	---	\$28	\$4,664	\$4,692	
Crab					
Sand	---	8,317	---	---	8,317
	---	\$25,017	---	---	\$25,017
Shore	---	---	---	---	3
	---	---	---	---	43
Killifish	---	---	---	---	233
	---	---	---	---	603
Mudsucker, longjaw	---	---	---	---	8,574
	---	---	---	---	8,758
Mussel (bay and rock)	---	89,289	10,047	5,920	99,336
	---	\$10,784	\$1,200	\$11,984	
Sculpin, staghorn	1,024	472	---	---	1,496
	\$3,304	\$1,775	---	---	\$5,079
Shrimp					
Bay	43,090	14,732	---	---	57,822
	\$61,398	\$20,463	---	---	\$81,861
Brine	---	---	---	---	92,230
	---	---	---	---	\$142,509
Ghost	---	5,441	2,140	8,614	7,581
	---	\$25,869	\$8,614	\$34,483	
Red	---	2,440	---	---	2,440
	---	\$3,790	---	---	\$3,790
Total	569,682	15,204	146,103	32,386	864,968
	\$109,536	\$22,238	\$91,409	\$20,407	\$396,354

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

**TABLE 23**  
**Inshore Bait Landings by Area Pounds and Value 1971**

**TABLE 24**  
**Recorded Catch of Live Bait for Saltwater Sportfishing 1967-1971**

Species	Thousands of pounds*				
	1967	1968	1969	1970	1971
Anchovy	10,774	14,353	10,627	12,210	12,774
Mackerel, jack	---	158	103	---	9
Mackerel, Pacific	---	---	8	---	1
Sardine, adult	1	57	34	---	---
Sardine, juvenile	T	---	---	6	T
Squid	---	23	9	---	10
Miscellaneous†	22	57	---	4	---
Total pounds	10,797	14,648	10,781	12,220	12,794
Number of vessels‡	16	19	10	11	14

\* Weights are estimated from voluntary records. They should be regarded as minimal because some fishermen do not supply catch information.

T Less than 500 pounds.

† Consists primarily of queenfish and white croaker.

‡ The number of live bait fishing vessels for which landings were reported. These numbers differ slightly from those in previous catch bulletins, since the earlier landing records, as submitted, sometimes included the catch of more than one boat.

**TABLE 24**  
**Recorded Catch of Live Bait for Saltwater Sportfishing 1967-1971**

TABLE 25  
California Ocean Recreational Salmon Landings and Success<sup>a</sup> by Fishery, Port,  
Month and Species, in Numbers of Fish—1971

	February			March			April			May			June			July		
	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day
Crescent City																		
Partyboat.....	0	0	a	1	7	a	0	0	a	0	0	a	5	24	0.5	51	198	0.9
Skiff.....	--	--	a	--	--	a	--	--	a	--	--	a	352	330	0.7	638	942	0.5
Eureka																		
Partyboat.....	0	0	a	0	0	a	20	15	a	80	55	a	473	319	0.9	728	2,048	1.6
Skiff.....	--	--	a	--	--	a	--	--	a	--	--	a	4,487	2,622	0.7	8,479	15,193	1.4
Fort Bragg																		
Partyboat.....	0	0	a	0	0	a	2	28	a	14	150	a	79	833	1.3	419	3,879	2.5
Skiff.....	--	--	a	--	--	a	--	--	a	--	--	a	138	1,066	0.9	495	3,801	0.8
San Francisco																		
Partyboat.....	6,588	0	0.8	23,140	63	2.3	9,023	2,907	1.1	6,176	1,129	1.0	5,011	2,354	1.1	15,177	2,390	1.8
Skiff.....	2,387	0	1.1	13,824	36	2.3	3,101	283	0.8	2,104	283	0.4	1,805	671	0.7	4,969	1,118	1.1
Monterey																		
Partyboat.....	324	0	b	537	0	b	305	0	b	285	0	b	51	0	b	37	0	b
Skiff.....	2,325	0	0.7	1,855	0	0.3	2,021	32	0.8	1,655	485	0.5	1,040	509	0.3	1,286	814	0.6
Statewide																		
Partyboat.....	6,910	0	0.8	23,678	70	2.3	9,351	2,950	1.1	6,555	1,324	1.0	6,519	3,530	1.1	16,410	8,815	1.8
Skiff.....	4,712	0	0.8	15,709	36	1.3	5,122	315	0.8	3,759	768	0.5	7,877	5,198	0.6	15,807	25,168	1.1

TABLE 25  
California Ocean Recreational Salmon Landings and Success by Fishery, Port, Month and Species, in Numbers of Fish—1971

TABLE 25—Continued  
California Ocean Recreational Salmon Landings and Success<sup>a</sup> by Fishery, Port,  
Month and Species, in Numbers of Fish—1971—Continued

	August			September			October			November			December			Season			
	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	
Crescent City																			
Partyboat.....	23	283	0.5	0	36	0.2	0	0	*	0	0	*	0	0	*	80	550	0.5	
Skiff.....	412	2,262	0.1	38	145	0.1	-	-	-	-	-	-	-	-	1,440	3,674	0.1		
Eureka																			
Partyboat.....	362	996	0.4	49	257	1.7	6	37	*	0	2	*	0	0	*	1,716	3,729	0.8	
Skiff.....	3,258	6,002	0.7	111	514	0.7	-	--	*	--	--	--	--	--	*	16,335	27,331	1.0	
Fort Bragg																			
Partyboat.....	221	2,053	1.4	64	364	0.7	0	0	*	0	0	*	0	0	*	789	8,207	1.7	
Skiff.....	866	3,107	0.8	20	313	0.8	--	--	*	--	--	--	--	--	*	1,571	8,267	0.8	
San Francisco																			
Partyboat.....	21,495	991	1.0	7,107	78	0.7	3,710	20	0.4	1,847	929	10	*	0	0	*	103,172	9,942	1.1
Skiff.....	9,676	943	1.2	2,775	74	0.6	1,197	4	0.5	1,583	0	0	1,0	*	0	*	42,707	3,712	1.0
Monterey																			
Partyboat.....	20	0	b	18	0	b	994	0	0.4	345	0	*	0	0	*	2,617	0	b	
Skiff.....	1,630	92	0.5	888	92	0.4	3,546	0	0.4	1,583	0	0.7	0	0	*	17,831	1,984	0.5	
Statewide																			
Partyboat.....	25,121	5,225	1.0	7,238	735	0.7	4,410	57	0.4	2,192	12	*	0	0	*	108,384	22,428	1.1	
Skiff.....	15,842	12,406	0.8	5,832	1,098	0.5	4,743	4	0.4	2,484	0	0.8	0	0	*	79,887	44,993	0.8	

<sup>a</sup> Salmon per angler-day, species combined. \* No sampling. <sup>b</sup> Data not comparable to that of other ports or months.

TABLE 25  
California Ocean Recreational Salmon Landings and Success by Fishery, Port, Month and Species, in Numbers of Fish—1971

TABLE 26  
California Commercial Troll Salmon Landings by Port-Area, Month and Species,  
in Pounds<sup>1</sup> and Numbers—1971

	April		May		June		July		August		September		Season	
	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
Crescent City														
King.....	0	0	53,071	6,268	296,259	39,336	48,620	7,218	16,800	1,455	2,004	143	517,654	54,420
Silver.....	0	0	3,649	778	131,686	24,411	462,542	65,540	29,412	3,193	3,579	286	630,598	97,208
Pink.....	0	0	0	0	504	0	5,067	851	35	6	0	5,607	97,652	
Eureka														
King.....	10	1	279,809	32,275	616,538	58,169	382,026	41,710	68,355	7,166	8,050	1,128	1,359,280	140,419
Silver.....	0	0	8,917	1,773	291,666	50,688	454,173	68,593	105,184	12,740	4,055	324	866,975	132,299
Pink.....	0	0	12	3	231	45	278	45	0	0	0	521	90	
Fort Bragg														
King.....	0	0	175,737	18,155	271,155	25,185	410,176	32,145	151,638	12,160	10,944	735	1,019,441	88,505
Silver.....	0	0	9,417	1,592	320,618	31,184	547,251	62,410	324,895	35,135	20,403	2,480	1,231,575	158,473
Pink.....	0	0	0	0	209	44	541	79	0	0	0	750	123	
San Francisco														
King.....	985	74	247,071	22,453	286,968	20,315	584,851	40,093	437,024	33,744	129,754	9,176	1,988,653	125,755
Silver.....	0	0	7,085	1,429	12,896	233,709	26,256	70,340	8,420	13,557	0	1,722	425,540	50,724
Pink.....	0	0	12	3	23	4	222	30	0	0	0	257	57	
Monterey														
King.....	2,424	252	116,218	9,385	81,708	6,062	88,877	6,539	34,808	613	18,554	1,493	342,589	24,044
Silver.....	0	0	1,273	242	8,896	1,316	8,757	1,017	6,391	607	2,011	218	28,196	3,400
Pink.....	0	0	0	0	0	0	0	15	0	0	0	57		
Statewide														
King.....	3,419	327	872,506	88,515	1,651,609	140,567	1,515,452	127,705	708,625	55,138	171,215	12,675	4,925,826	433,927
Silver.....	0	0	30,841	6,215	857,910	140,545	1,706,432	230,216	542,012	60,095	46,605	6,034	3,183,820	442,104
Pink.....	0	0	24	0	997	198	6,159	1,017	59	6	0	0	7,222	1,217

<sup>1</sup> Dressed, head on.

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TABLE 26

*California Commercial Troll Salmon Landings by Port-Area, Month and Species, in Pounds and Numbers—1971*

MARINE FISH CATCH FOR 1971