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DEPARTMENT OF FISH AND GAME
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California Marine Fish Landings For 1973



by
Robert Mcallister
1975

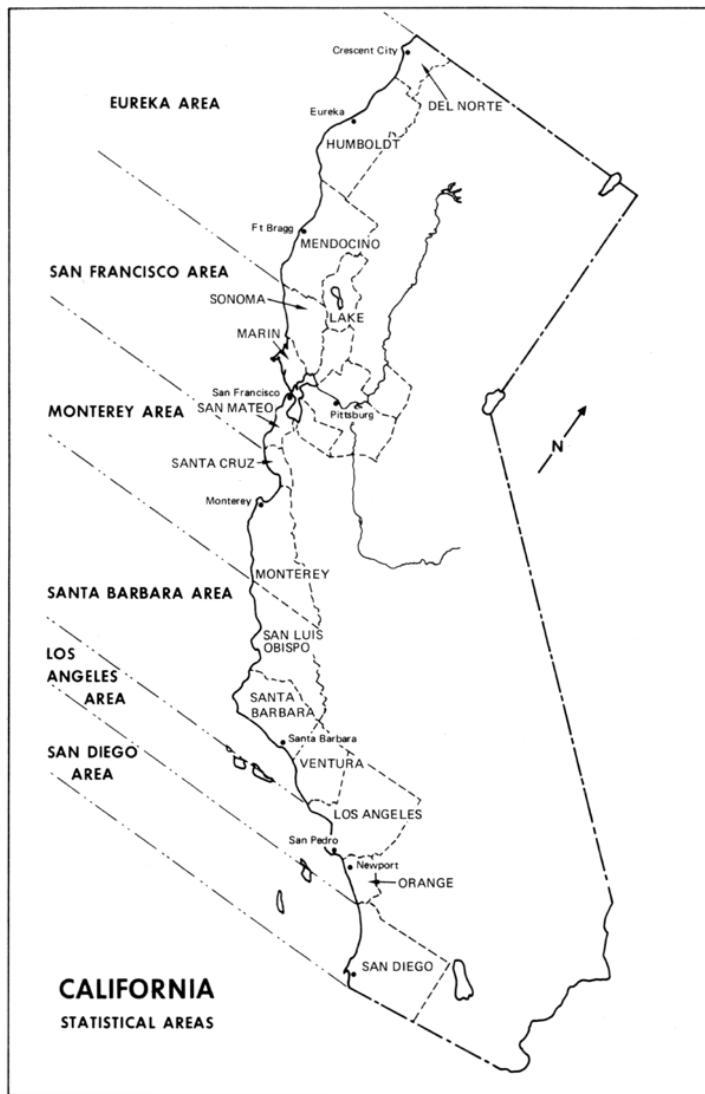


FIGURE 1. Geographical areas used to summarize California Fisheries Statistics.

(2)

FIGURE 1. Geographical areas used to summarize California Fisheries Statistics

TABLE OF CONTENTS

	<i>Page</i>
Foreword	5
Explanation of Tables	6
Common and Scientific Names of Fishes, Crustaceans and Mollusks in the 1973 Catch	9
Annual Landings and Shipments (Figure 2)	10
Annual Landings and Shipments, 1916 through 1973	11
Landings and Shipments of Leading Species Ranked by Pounds	11
Number of Licensed Commercial Fishermen	12
Number of Registered Fishing Boats by Length	12
Origin of Shipments	13
Origin of Commercial Fish Landings	14
Monthly Landings and Shipments—Statewide	16
Monthly Landings and Shipments by Area	18-31
Value of Landings and Shipments by Area	32-34
Value of Landings and Shipments by Ports and Areas	35-45
Partyboat Sport Catch, 1964-1973	46
Inshore Bait Landings, 1973	47
Live Bait Catch, 1966-1973	47
California Ocean Recreational Salmon Landings and Success—1973	48-49
California Commercial Troll Salmon Landings—1973	50
Appendix I Monthly Landings From Inland Waters	51
Appendix II Value of Landings From Inland Waters	52
Appendix III Kelp Harvest in Tons 1916-1973	53

FOREWORD

Landing bulletins provide basic catch records of amounts and values of various marine resources taken by California's commercial fisheries while summarizing catches of the partyboat sportfishing industry. Small quantities of freshwater fish taken commercially in inland areas are also detailed. These figures are of local, national, and international significance to fishery scientists and others interested in the wise utilization and management of California's living marine resources.

This report for 1973 is the 33rd in a series stemming from the first gathering of commercial fisheries landing data by the California Department of Fish and Game in 1916 and the subsequent first publication of these catch data in 1929 for the years 1926 and 1927.

California's fishery statistics are based on a system where fish dealers, processors, and operators of sportfishing partyboats send duplicate copies of their landing records to the department. Fish Bulletin 86, which reported the catch for 1950, describes fully the system and methods used in collecting commercial fish records. Basic principles remain the same today as then, although methods and equipment have been changed as necessary. The partyboat fishing system is described in Fish Bulletin 145 by Parke Young (1969).

Credit for this publication is due largely to the cooperative efforts of the fishing industry, wholesale fish dealers, fishermen, canners, and processors, and department personnel responsible for the market receipt system who have through their efforts provided the most accurate statistics possible. My utmost appreciation is extended to this large group of people without which this publication would not be possible.

1. EXPLANATION OF TABLES

Tables in this bulletin summarize statistics of the various fishery operations in California during 1973. Five types of activity are being reported this year: landings of commercial fishermen in California; sport catches of the partyboat fleet; imports of tuna from other states or foreign countries destined for processing in California; landings of inshore species used for bait; and catches of boats supplying live bait for sportfishing. In addition, the species composition of the 1973 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.

Preliminary landing data are published annually in the circular series which enumerates certain fishery products produced from the catch. The 1973 figures are contained in Circular number 48, "Statistical Report of Fresh, Canned, Cured and Manufactured Fishery Products for 1973" (Oliphant, 1973).

In years to come, the tables will be printed in metric values; however, for this bulletin the following necessary factors for conversion are provided.

1 Pound — 453.59 Grams

1 Pound — 0.453 Kilogram

1 Ton (Net or Short) = 0.907 Metric Ton

1.1. 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 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, local Fish and Game wardens, and field biologists 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 is then punched into cards and summarized with electric tabulating machines.

1.2. STATISTICAL AREAS

California is divided into seven areas for the purpose of reporting fisheries statistics (Figure 1). Each statistical area is named for a major port within its boundaries.

Sacramento area landings prior to 1972 were included with San Francisco totals. In the 1972 bulletin, the separation of all inland fish landings resulted in Appendix I and II. The status of these data is continued in its past form until future demand may require their elevation to table status.

1.3. SPECIES

The common and scientific names of species reported here are those designated by the department (Gates and Frey, 1974). Some species are reported only collectively when, for economic or other reasons, their separation is not practical (Table 1).

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 1973 animal food landings are as follows:

<i>Species</i>	<i>Percent</i>	<i>Pounds</i>
Pacific hake	47.5	153,226
Rockfish (12 species)	18.2	58,710
Sablefish	16.7	53,871
Dover sole	7.2	23,226
English sole	5.7	18,387
Rex sole	3.8	12,258
10 other species	0.9	2,903
	100.0	322,581

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.

The miscellaneous fish category, as reported in the 1973 landings tables, consists of small volume deliveries of the following species: lamprey, California moray, striped mullet, Pacific halibut, sargo, shad, spotted cabrilla, and wolf-eel. Reporting of skate and ray species on market receipts was poor; the reported species consisted of skates, rays, stingrays, and shovel-nose guitarfish. Miscellaneous mollusks consisted of mussels, quahogs, sea snails, soft shell clams, and Washington clams.

Due to increasing requests for marine plant harvest information, a table of kelp landings is presented in Appendix III. This is an updated version of the table presented by Frey (1971) on giant kelp, *Macrocystis* spp., landings by open and leased beds dating back to 1916.

1.4. CONDITION

Most fish and shellfish are landed in a round condition; however, some species, such as barracuda, salmon, and swordfish usually are

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.

Abalone number to weight conversion factors were reexamined during the 1970-71 abalone season by a department biological team. These conversion factors, rounded off to whole numbers, were used in 1972. The same factors are used in this bulletin and are as follows:

Abalone, red	45 pounds per dozen
Abalone, pink	25 pounds per dozen
Abalone, green	25 pounds per dozen
Abalone, white	20 pounds per dozen
Clam, Washington	7 pounds per dozen
Crab, Dungeness	2 pounds each
Live bait	12.5 pound per scoop

1.5. 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.

1.6. INSHORE BAIT

The inshore bait fishery takes numerous species 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 1973 were as follows:

Crab, sand	0.041 pound per dozen
	4.5 pounds per gallon
Crab, shore	0.013 pound per dozen
Mudsucker	0.465 pound per dozen
Mussel	80.000 pounds per sack
Sculpin, staghorn	0.465 pound per dozen
Shrimp, ghost	0.128 pound per dozen

1.7. REFERENCES

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Gates, Doyle E., and Herbert W. Frey. 1974. Designated common names of certain marine organisms of California. Calif. Dept. Fish and Game, Fish Bull., (161): 55-90.
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Oliphant, Malcolm S. 1973. Statistical report of fresh, canned, cured and manufactured fishery products for 1973. Calif. Dept. Fish and Game, Circular, (48): 1-19.
Young, Parke H. 1969. The California partyboat fishery 1947-1967. Calif. Dept. Fish and Game, Fish Bull., (145): 1-91.

2. TABLES

TABLE 1
Common and Scientific Names of Fishes, Crustaceans, and Mollusks in the
1973 Catch

Common name	Scientific name	Common name	Scientific name
FISHES			
Anchovy, Northern	<i>Engraulis mordax</i>	Salmon	<i>Oncorhynchus tshawytscha</i>
Barracuda, California	<i>Sphyraena argentea</i>	King	<i>Oncorhynchus gorbuscha</i>
Bass, rock	<i>Paralabrax clathratus</i>	Pink	<i>Oncorhynchus kisutch</i>
Kelp bass	<i>Paralabrax nebulosus</i>	Sanddab	<i>Citharichthys sordidus</i>
Sand bass, barred	<i>Paralabrax maculatus/fasciatus</i>	Sardine, Pacific	<i>Sardinops sagax caeruleus</i>
Spotted sand bass	<i>Paralabrax maculatus/fasciatus</i>	Sargo	<i>Anisotremus darwini</i>
Blacksmith	<i>Chromis punctipinnis</i>	Sculpin	<i>Scorpaena guttata</i>
Bonito, Pacific	<i>Sarda chilensis</i>	Sechin, Pacific staghorn	<i>Neosebastes americanus</i>
Caballa	<i>Scorpaenichthys marmoratus</i>	Sea bass, giant	<i>Stereolepis gigas</i>
Cabealla, spotted	<i>Epinephelus marginatus</i>	Seabass, white	<i>Cynoglossus nobilis</i>
Croaker		Senorita	<i>Oxyjulis californica</i>
White	<i>Gymnophorus lineatus</i>	Shark	
Queenfish	<i>Seriola politus</i>	Members of family Alopidae, Carcharhinidae, Lamnidae and Squalidae	
Dolphinfish	<i>Coryphaena hippurus</i>	Sheephead, California	<i>Pimelometopon pudicum</i>
Eel, wolf	<i>Anarrhichthys ocellatus</i>	Skates and Rays	
Flounder		Members of family Rhinobatidae, Rajidae and Myliobatidae	
Arrowtooth	<i>Atheresthes stomias</i>	Smelt	
Starry	<i>Platichthys stellatus</i>	Jacks/melt	<i>Atherinopsis californiensis</i>
Flyingfish	<i>Cypselurus spp.</i>	Night	<i>Spirinchus starksii</i>
Freshwater fish		Surf	<i>Hypomesus pretiosus</i>
Carp	<i>Cyprinus carpio</i>	Whitebait	<i>Allosmerus elongatus</i>
Sacramento blackfish	<i>Orthodus microlepidotus</i>	Sole	<i>Spirinchus starksii</i>
Green, kelp	<i>Hexagrammos decagrammus</i>	Butter	<i>Isopeplata solepis</i>
Grenadiers		Dover	<i>Microstomus pacificus</i>
California	<i>Nesumia stegolepis</i>	English	<i>Paraprophryx retulus</i>
Pacific	<i>Coryphaenoides acrolepis</i>	Petrale	<i>Eopsetta jordani</i>
Hake, Pacific	<i>Merluccius productus</i>	Rex	<i>Glyptocephalus zachirus</i>
Halfmoon	<i>Medialuna californiensis</i>	Rock	<i>Lepidotretta bilineata</i>
Hallibut		Sand	<i>Psettichthys melanostictus</i>
California	<i>Paralichthys californicus</i>	Swordfish	<i>Xiphias gladius</i>
Pacific	<i>Hippoglossus stenolepis</i>	Tuna	
Herring, Pacific	<i>Clupea harengus pallasi</i>	Albacore	<i>Thunnus alalunga</i>
Lamprey	<i>Lampetra spp.</i>	Bigeye	<i>Thunnus obesus</i>
Lingcod	<i>Ophiodon elongatus</i>	Bluefin	<i>Thunnus thynnus</i>
Mackerel		Skipjack, tuna	<i>Euthynnus pelamis</i>
Jack	<i>Trachurus symmetricus</i>	Skipjack, black	<i>Euthynnus lineatus</i>
Pacific	<i>Scomber japonicus</i>	Yellowfin	<i>Thunnus albacares</i>
Market, California	<i>Trachurus mordax</i>	Turbot	
Muliecker, longjaw	<i>Gillichthys mirabilis</i>	Curnfin	<i>Pleuronichthys decurrens</i>
Mullet, striped	<i>Mugil cephalus</i>	Diamond	<i>Hypospatha guttulata</i>
Opahye	<i>Girela nigricans</i>	Hornbyhead	<i>Pleuronichthys verticalis</i>
Perch, ocean		Wahoo	<i>Acanthocybium solanderi</i>
Pompano (Butterfish,		Whitefish, ocean	<i>Caulolatilus princeps</i>
Pacific)	<i>Pampus similis</i>	Yellowtail	<i>Seriola dorsalis</i>
Rockfish			
Sablefish	<i>Anoplopoma fimbria</i>		
AMPHIBIA			
Bullfrog	<i>Rana catesbeiana</i>		
CRUSTACEANS			
Crab		Prawn	
Dungeness	<i>Cancer magister</i>	Ridgeback	<i>Eusicyonia ingentus</i>
Pelagic red	<i>Pleuroncodes planipes</i>	Spot	<i>Pandalus platyceros</i>
Rock	<i>Cancer spp.</i>	Shrimp	
Sand	<i>Emerita analoga</i>	Bay	<i>Crago spp.</i>
Sheep	<i>Loxorhynchus spp.</i>	Ghost, Bay	<i>Callianassa californiensis</i>
Shore	<i>Hemigrapsus spp.</i>	Ocean, Pacific	<i>Pandalus jordani</i>
Crayfish	<i>Astacus traversi</i>	Red	<i>Hippolytima californica</i>
Lobster, spiny	<i>Panulirus interruptus</i>		
ECHINODERMS			
Sea urchin	<i>Strongylocentrotus spp.</i>		
MOLLUSKS			
Ahalone		Quahog, Northern	<i>Mercenaria mercenaria</i>
Black	<i>Haliothis cracherodii</i>	Softshell	<i>Mya arenaria</i>
Green	<i>Haliothis fulgens</i>	Washington, common	<i>Sazidomus nuttalli</i>
Pink	<i>Haliothis corrugata</i>	Mussel	
Red	<i>Haliothis rufescens</i>	Bay	<i>Mytilus edulis</i>
Threaded	<i>Haliothis assimilis</i>	Rock	<i>Mytilus californianus</i>
White	<i>Haliothis sorenseni</i>	Octopi	<i>Polypus spp.</i>
Clam		Oyster	
Freshwater	<i>Corbicula fluminea</i>	Eastern	<i>Crassostrea virginica</i>
Jackknife, California	<i>Tagelus californianus</i>	Giant Pacific	<i>Crassostrea gigas</i>
Littleneck	<i>Protobranchia staminea</i>	Snail, sea	<i>Liparis atlanticus</i>
Purple	<i>Sanguinolaria nuttalli</i>	Squid, market	<i>Loligo opalescens</i>

TABLE 1
Common and Scientific Names of Fishes, Crustaceans, and Mollusks in the 1973 Catch

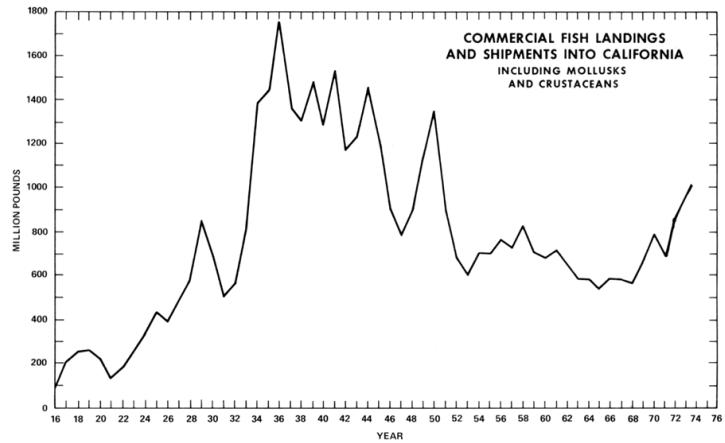


FIGURE 2. Total Annual landings and shipments into California (see Table 2). Sardine deliveries to reduction ships, 1930–38 are included. Since 1965, tunas are the only species included in shipments.

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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	487,166	1957	738,550
1928	583,527	1958	832,919
1929	856,854	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	591,533
1937	1,382,984	1967	589,028
1938	1,310,596	1968	567,214
1939	1,486,535	1969	672,793
1940	1,297,518	1970	798,415
1941	1,528,892	1971	687,995
1942	1,173,414	1972	845,699
1943	1,234,049	1973	1,006,431
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

1972				1973			
Species	Rank	Thousands of pounds	Thousands of dollars	Species	Rank	Thousands of pounds	Thousands of dollars
Yellowfin tuna	1	278,487	\$65,377	Yellowfin tuna	1	279,084	\$72,191
Anchovy, northern	2	138,202	1,678	Anchovy, northern	2	265,272	6,646
Skipjack tuna	3	123,768	28,851	Skipjack tuna	3	198,838	57,359
Albacore tuna	4	97,132	38,882	Albacore tuna	4	73,648	36,087
Jack mackerel	5	51,118	2,153	Pacific bonito	5	30,788	3,202
Bluefin tuna	6	30,974	7,033	Bluefin tuna	6	27,359	7,006
Pacific bonito	7	22,313	2,055	Dover sole	7	22,486	2,276
Dover sole	8	22,082	1,808	Rockfish	8	22,052	2,251
Squid	9	20,159	534	Jack mackerel	9	20,616	992
Rockfish	10	16,421	1,490	Squid	10	12,062	435
Sablefish	11	8,396	649	Salmon	11	9,669	8,991
Salmon	12	6,423	4,830	Sablefish	12	8,550	661
Petrale sole	13	3,575	599	Sea Urchin	13	3,595	280
Lingcod	14	3,246	339	Lingcod	14	3,560	389
Abalone	15	3,093	1,248	English sole	15	3,210	444
English sole	16	3,002	342	Abalone	16	3,193	1,077
Ocean shrimp	17	2,490	374	Petrale sole	17	2,877	559
Rex sole	18	1,662	201	Pacific herring	18	2,819	108
Dungeness crab	19	1,563	889	Bigeye tuna	19	1,788	554
Black skipjack	20	1,543	123	Rex sole	20	1,585	228
All others	--	10,050	3,064	All others	--	13,380	4,835
Totals	--	845,699	\$162,519	Totals	--	1,006,431	\$206,571

* 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*	
	1972-73	1973-74
Eureka.....	1,870	1,993
Sacramento.....	488	513
San Francisco.....	2,035	2,318
Monterey.....	800	1,097
Santa Barbara.....	941	1,387
Los Angeles.....	2,070	2,499
San Diego.....	1,688	1,717
Alaska, Washington and Oregon fishermen licensed in California.....	524	550
Mexican nationals licensed in California.....	39	22
Other.....	58	57
Totals.....	10,513	12,153

* 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*	
	1972-73	1973-74		1972-73	1973-74
0- 10.....	3	4	101-105.....	8	5
11- 15.....	128	163	106-110.....	6	5
16- 20.....	954	1,119	111-115.....	4	5
20- 25.....	679	870	116-120.....	8	8
26- 30.....	707	842	121-125.....	5	4
31- 35.....	628	684	126-130.....	7	3
36- 40.....	820	860	131-135.....	6	7
41- 45.....	429	435	136-140.....	9	10
46- 50.....	311	306	141-145.....	1	1
51- 55.....	136	141	146-150.....	0	0
56- 60.....	113	136	151-155.....	16	17
61- 65.....	110	107	156-160.....	3	4
66- 70.....	35	31	161-165.....	3	3
71- 75.....	32	37	166-170.....	4	4
76- 80.....	29	29	171-175.....	4	6
81- 85.....	19	22	176-180.....	0	2
86- 90.....	10	10	181 and over.....	19	35
91- 95.....	8	9	Total.....	5,261**	5,932†
96- 100.....	7	8			

* April 1 to March 31.

** The owners of 465 boats were issued fishing party licenses in 1972-73.

† The owners of 489 boats were issued fishing party licenses in 1973-74.

TABLE 5
Number of Registered Fishing Boats by Length

TABLE 6
Origin of Shipments Received for Processing in California During 1973 *

Shipped from:	Species	Pounds shipped to each area		Total pounds
		Los Angeles	San Diego	
Oregon, Washington, Canada and Alaska:				
Tuna, albacore		16,357,747	436,419	16,794,166
Mexico and Central America:				
Tuna, bluefin		64,502	286,279	350,781
Tuna, skipjack		400,988	394,438	795,426
Tuna, skipjack, black		37,265	—	37,265
Tuna, yellowfin		3,929,498	5,108,195	9,037,693
South America:				
Tuna, skipjack		6,365,960	—	6,365,960
Tuna, yellowfin		4,865,137	—	4,865,137
Japan:				
Tuna, albacore		33,681,221	3,552,705	37,233,926
Tuna, bigeye		58,925	—	58,925
Tuna, bluefin		306,240	—	306,240
Tuna, skipjack		110,266,227	23,811,720	134,067,947
Tuna, skipjack, black		10,094	—	10,094
Tuna, yellowfin		6,344,764	2,258,154	8,602,918
Australia and New Zealand:				
Tuna, albacore		326,219	—	326,219
Tuna, bluefin		6,482,340	—	6,482,340
Tuna, skipjack		64,441	—	64,441
Tuna, yellowfin		8,202	6,117	14,319
China (Formosa):				
Tuna, albacore		336,871	81,965	418,836
Tuna, bigeye		—	14,402	14,402
Tuna, skipjack		207,733	279,159	486,892
Tuna, yellowfin		5,022,512	2,966,767	7,989,279
Malaya:				
Tuna, albacore		2,490,683	—	2,490,683
Tuna, bluefin		32,550	—	32,550
Tuna, skipjack		8,265	—	8,265
Tuna, yellowfin		1,737,955	498,242	2,236,197
South Pacific Islands:				
Tuna, albacore		7,468,658	—	7,468,658
Tuna, skipjack		11,439,142	—	11,439,142
Tuna, yellowfin		5,684,076	—	5,684,076
Africa:				
Tuna, albacore		190,098	—	190,098
Tuna, skipjack		11,169,417	—	11,169,417
Tuna, yellowfin		1,083,787	—	1,083,787
Philippines:				
Tuna, bigeye		576,625	57,727	634,352
Tuna, skipjack		1,872,422	1,866,206	3,738,628
Tuna, yellowfin		5,099,146	1,677,329	6,776,475
Hawaiian Islands:				
Tuna, skipjack		440,076	—	440,076
Thailand:				
Tuna, bigeye		135,631	39,132	174,763
Korea:				
Tuna, albacore		—	84,423	84,423
Tuna, skipjack		411,730	40,766	452,496
Total pounds		244,967,147	43,460,145	288,427,292

* Beginning in 1965 only tuna shipments are recorded.

TABLE 6
Origin of Shipments Received for Processing in California During 1973

TABLE 7
Origin of Commercial Fish Landings and Volume of Shipments into California During 1973

Species	Landings of catches from					Tuna shipments*	Grand total
	California waters	Waters north of State	Waters south of State	Central Pacific waters	Total pounds		
Fish:							
Anchoa.....	265,271,871	265,271,871	265,271,871
Barnacles, California.....	37,547	58	37,605	37,605
Blacksmith.....	12,000	12,000	12,000
Bonito.....	18,253,252	12,262,478	30,515,731	30,515,731
Butterfish, Pacific.....	94,943	94,943	94,943
Cabazon.....	4,554	4,554	4,554
Croaker, white.....	227,096	227,096	227,096
Dolphin.....	924	6,110	6,114	6,114
Eel.....	382	382	382
Flounder.....	713,898	1,005	714,903	714,903
Flounder, arrowtooth.....	225,146	11,098	236,244	236,244
Flyingfish.....	169,381	160,081	160,081
Grenadier.....	61,010	9,820	10,860	10,860
Grouper.....	61,010	1,150	1,150
Hake, Pacific.....	34,175	34,175	34,175
Hallibut.....	11,779	11,779	11,779
Haddock, California.....	73,646	1,060	72,506	72,506
Herring, Pacific.....	2,819,467	2,819,467	2,819,467
Lingcod.....	3,483,313	94,183	3,582,492	3,582,492
Mackerel, jack.....	20,615,827	20,615,827	20,615,827
Mackerel, Pacific.....	56,770	78	56,848	56,848
Mudskipper, longjaw.....	1,286	1,286	1,286
Mullet.....	2,569	2,569	2,569
Otterfish.....	23,688	23,688	23,688
Perch.....	132,125	5,875	138,000	138,000
Queenfish.....	39,406	39,406	39,406
Rockfish.....	21,314,997	674,561	60,897	22,052,455	22,052,455
Sablefish.....	7,575	941,193	8,371	8,371
Salmon.....	9,668,966	18	9,668,984	9,668,984
Sanddab.....	992,117	1,884	994,001	994,001
Sardine, Pacific.....	151,599	151,599	151,599
Sargo.....	292	292	292
Seafish.....	37,534	120,926	158,860	158,860
Sea bass, giant.....	40,736	50,101	90,837	90,837
Sebastodes, white.....	551,440	227,455	803,993	803,993
Serranidae.....	8,375	8,375	8,375
Shark.....	386,771	182	31,771	418,694	418,694
Sheepshead, California.....	2,962	110	3,072	3,072
Skate.....	132,521	912	132,521	132,521
Smelt.....	128,040	925,040	925,040

TABLE 7
Origin of Commercial Fish Landings and Volume of Shipments into California During 1973

Sole, whitetail.....	382,140	382,140	382,140
Sole, Dover.....	19,158,153	3,227,573	22,485,725	22,485,725
Sole, English.....	3,163,275	45,958	3,209,733	3,209,733
Sole, petrale.....	2,842,142	21,047	2,842,142	2,842,142
Sole, sand.....	1,480,431	95,203	1,484,734	1,484,734
Sole, miscellaneous.....	239,568	774	240,342	240,342
Swordfish.....	24,270	29	24,399	24,399
Tuna, albacore.....	611,365	5,179	613,544	613,544
Tuna, bigeye.....	7,747,571	577,349	302,393	15,230	7,802,523	65,007,009	73,453,351
Tuna, bluefin.....	989,297	19,192,810	20,187,207	7,171,911	27,350,118
Tuna, skipjack.....	6,784	29,797,479	5,018	29,809,281	169,028,690	198,837,071
Tuna, yellowfin.....	1,391,145	1,391,145	1,391,145	1,403,353	1,403,353
Tuna, yellowfin.....	11,444	232,767,245	15,272	232,793,961	46,289,881	279,083,842
Turbot.....	36,355	45	36,400	36,400
Walrus.....	1,444	15,058	15,058	15,058
Whalefish, ocean.....	1,444	16,140	16,141	16,141
Yellowtail.....	82,682	152,949	235,622	235,622
Miscellaneous.....	678	678	678
Molluscan (animal food).....	322,581	322,581	322,581
Ostacaria:							
Crab, dungeness.....	1,022,873	1,022,873	1,022,873
Crab, pelagic red.....	9,400	86,325	95,725	95,725
Crab, rock.....	935,788	935,788	935,788
Lobster, California spiny.....	23,179	233,179	233,179
Prawn, spot.....	24,384	24,384	24,384
Shrimp, Pacific ocean.....	1,225,977	10,999	1,239,976	1,239,976
Echinoderm:							
Sea urchin.....	3,594,695	3,594,695	3,594,695
Mollusk:							
Ahalone, black.....	1,912,949	1,912,949	1,912,949
Ahalone, flat.....	1	1	1
Ahalone, green.....	156,304	156,304	156,304
Ahalone, pink.....	371,352	371,352	371,352
Ahalone, pinto.....	15	15	15
Ahalone, red.....	663,919	663,919	663,919
Ahalone, striped.....	5,008	5,008	5,008
Ahalone, white.....	83,112	83,112	83,112
Octopus.....	22,906	442	23,348	23,348
Oyster, eastern.....	1,148	1,148	1,148
Oyster, giant Pacific.....	725,739	725,739	725,739
Squid, market.....	263	263	263
Squid, market.....	12,061,129	503	12,061,632	12,061,632
Miscellaneous mollusk.....	212	212	212
Total pounds.....	414,765,554	5,816,292	297,388,309	35,520	715,004,675	288,427,292	1,006,431,967

* 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 1973

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS:													
Fish													
Anchova.....	188,450	15,769	872,006	45,128,726	36,690,231	194,946	271,275	8,310,810	49,223,250	36,365,840	44,663,162	43,407,284	265,271,871
Barracuda, California.....	54	34	13	973	6,025	23,424	3,927	58	199	351	747	1,800	37,605
Blacksmith, Pacific.....													12,000
Bluefin, Pacific.....	3,757,172	688,071	1,036,320	558,559	332,951	3,295,002	3,860,162	4,543,299	4,012,592	4,450,646	1,934,751	2,319,963	30,971,751
Butterfish, Pacific.....	1,527	9,394	36,672	9,365	17,369	1,343	5,722	3,264	1,902	4,402	3,063	94,943	
Cabezon.....	789	1,439	1,031	55	310	130	41	118	611	4,554			
Croaker, white.....	19,715	15,678	12,572	21,001	35,634	15,999	10,459	16,685	18,163	9,155	11,347	10,695	227,096
Dolphin, California.....	209	60	170	1,049	3,900	9	203	125	10	15	6,041
Pel.....	10	10	10	10	10	10	10	10	10	10	10	10	382
Flounder.....	10,230	20,721	22,709	35,610	32,732	39,591	101,174	259,760	48,844	114,909	6,466	22,157	714,903
Flounder, arrowtooth.....	12,623	17,624	19,879	22,731	22,447	17,058	19,742	35,641	31,372	28,684	555	4,888	236,244
Grenadier.....	118	1,213	1,200	155	55,317	52,461	22,422	30,100	11,112	1,112	1,112	1,112	100,981
Grouper.....	118	1,213	1,200	155	1,034	7,712	5,080	31,609	19,523	283	7,533	7,533	70,890
Lake trout.....	1,065	3,146	20,234	2,656	5,560	1,235	418	1,150	1,150	34,173
Halibut.....	889	1,119	657	1,006	1,005	1,015	513	290	10	1,112	242	11,112	11,112
Hallibut, California.....	9,042	3,798	11,484	9,902	23,147	50,584	45,298	38,924	26,771	20,082	19,327	15,484	272,526
Herring, Pacific.....	1,221,446	756,491	153,059	97,739	192,705	96,461	275,926	39,770	24,800	5,100	3,670	2,819,467	
Herring, Sardinian.....	91,736	150,963	18,991	18,991	205,561	150,963	150,963	35,356	286,049	118,118	188,359	188,359	350,891
Mackerel, jack.....	253,099	424,929	173,033	718,991	1,415,222	8,841,041	3,442,374	1,082,729	471,967	3,320,175	1,182,215	258,891	20,827
Mackerel, Pacific.....	125	1,512	174	376	5,369	34,688	3,194	1,055	3,684	6,545	125	56,848	
Mudskipper, longjaw.....	83	172	89	152	141	205	108	70	123	30	25	1,284	
Mullet.....	187	187	1,781	1,781	1,781	1,781	1,781	1,781	1,781	1,781	1,781	1,781	1,598
Ovalfish.....	187	187	1,781	1,781	1,781	1,781	1,781	1,781	1,781	1,781	1,781	1,781	2,028
Perch.....	6,187	8,481	9,545	29,660	3,597	17,830	14,251	17,979	13,897	5,705	4,568	6,351	138,000
Queenfish.....	1,350	495	930	8,880	16,770	200	24	3,527	3,330	4,000	1,112	1,112	39,406
Rockfish.....	1,618,781	1,668,977	1,886,443	1,946,999	1,867,692	1,888,012	2,227,665	2,005,097	1,637,968	2,149,544	1,364,661	1,735,616	22,052,455
Sablefish.....	412,446	467,880	746,111	498,538	2,435,175	3,369,274	2,608,537	540,540	924,544	427,431	702,561	1,071,071	
Salmon.....	9,608	43,334	33,997	58,594	107,923	137,424	172,076	161,683	72,448	1,168	21,435	24,409	904,001
Sardine, Pacific.....	1,189	825	20,550	23,330	20,690	38,616	14,545	16,360	14,333	715	452	151,599	
Sargo.....	2,312	1,109	756	6,067	3,419	42,359	66,288	32,441	1,655	821	536	1,047	158,890
Scarp, giant.....	5,929	99	9,320	12,080	5,624	5,308	6,491	6,491	23,377	5,378	17,598	9,877	
Sole, white.....	56,569	25,604	20,594	20,594	71,659	83,565	192,774	220,767	30,853	24,621	37,560	26,612	869,055
Somera.....	5,272	5,272	5,272	5,272	5,272	5,272	5,272	5,272	5,272	5,272	5,272	5,272	6,375
Shark.....	18,359	9,420	13,044	18,117	47,080	65,049	78,542	33,286	25,754	30,849	44,095	35,068	418,694
Sheepshead, California.....	564	354	33	21	220	732	357	53	36	52	132	18	3,072
Shiner.....	1,411	11,131	14,097	17,297	14,911	16,111	16,111	8,936	8,936	7,161	2,340	4,245	132,143
Smelt.....	11,780	42,501	5,083	76,332	87,917	112,694	156,029	209,875	83,505	103,918	25,960	5,425	
Smelt, whitebait.....	5,294	33,647	24,058	51,232	110,850	71,058	78,467	3,370	104	100	100	100	382,140
Sole, Dover.....	69,938	936,132	1,741,575	2,055,200	3,389,904	2,611,531	2,522,460	2,842,224	2,036,690	352,080	1,013,051	22,485,725	
Sole, English.....	166,204	272,118	227,828	257,916	292,818	233,378	271,423	343,790	314,672	1,491	131,505	160,700	3,209,733
Sole, green.....	39,415	17,457	17,457	17,457	17,457	17,457	17,457	17,457	17,457	17,457	17,457	17,457	178,899
Sole, rex.....	120,480	191,141	170,467	163,953	125,750	119,404	146,132	170,521	120,441	107,099	21,389	118,990	1,581,734

TABLE 8 Monthly Landings and Shipments Into California During 1973

Sole, sand	5,565	8,778	8,885	21,045	35,671	25,490	9,372	46,29	24,462	19,309	18,900	12,636	210,312
Sole, white	55	10,00	61	10,14	718	15,268	73,653	153,328	122,673	215,549	31,655	58	249
Swordfish	—	—	—	—	—	—	—	—	—	—	—	—	613,544
Tuna, albacore	—	—	—	—	—	—	78,406	116,290	296,568	3,275,423	4,488,069	383,420	8,640,452
Tuna, bigeye	—	—	20,915	159,000	—	—	—	—	170,653	170,653	—	140,835	27,710
Tuna, bluefin	—	2,793	—	20,115	—	33,491	1,534,600	4,830,294	6,152,522	5,999,531	951,701	498,898	20,167,267
Tuna, skipjack	383,415	662,434	1,293,691	1,413,939	5,671,832	5,049,768	2,843,579	2,131,770	2,131,770	2,131,770	2,131,770	3,895,013	250,915
Tuna, skipjack, black	2,329	1,012	273,083	332,119	210,184	269,298	—	—	—	—	—	6,350	177,007
Tuna, yellowfin	1,560,720	29,132,000	12,538,160	35,868,738	40,221,700	11,867,738	21,708,676	7,882,048	13,531,881	18,622,100	13,887,564	20,910,916	202,750,564
Turbot	2,120	—	1,818	1,405	3,724	—	6,000	3,367	5,905	2,364	3,072	2,220	988
Wahoo	319	7,217	3,518	2,202	—	—	—	—	—	146	—	1,626	15,058
Whitefish, ocean	82	422	—	516	66	9	—	—	7	155	57	223	47
Yellowtail, ocean	15,415	4,468	—	4,975	15,486	37,402	79,984	21,109	18,318	14,160	17,311	3,580	235,922
Miscellaneous	—	—	35	—	120	79	96	134	67	143	67	143	678
Miscellaneous (animal food)	31,165	50,290	32,505	17,910	27,871	25,740	38,285	16,670	37,600	13,229	18,990	11,998	322,581
Crustacean:													
Crab, green	26,944	190,448	47,886	52,066	71,256	45,576	16,561	17,000	—	6	137,201	147,127	1,022,873
Crab, pelagic red	—	—	—	—	—	—	—	—	—	—	—	—	95,725
Crab, rock	57,436	67,944	95,289	109,173	86,283	88,598	101,498	94,824	74,204	55,565	48,450	75,115	55,788
Decapod, ocean	32,650	21,600	11,341	—	—	—	—	—	—	73,120	41,221	23,797	23,797
Prawn, spot	3,486	335	43	—	—	—	—	—	—	—	—	3,797	2,694
Shrimp, Pacific ocean	—	—	115,388	273,410	60,812	622,026	156,735	9,177	2,428	—	—	—	1,239,978
Echinoderm:													
Sea urchin	51,384	95,503	71,946	196,508	131,641	67,438	263,259	550,861	421,810	655,577	458,450	630,318	3,591,605
Mollusca:													
Abalone, black	97,153	—	25,812	282,014	340,290	327,178	328,113	192	215,810	112,361	98,561	85,432	1,912,949
Abalone, flat	—	—	—	—	—	—	—	—	—	—	—	—	—
Abalone, green	55,568	653	18,318	31,217	21,350	18,655	18,475	—	—	6,122	5,188	6,155	5,551
Abalone, red	48,837	—	28,124	31,550	35,250	31,546	17,666	4,150	34,514	33,069	33,003	42,473	371,352
Abalone, pinto	90,171	—	—	15	—	—	—	—	—	—	—	—	15
Abalone, threaded	239	—	54,385	90,958	72,239	63,504	76,582	452	65,238	71,865	40,963	48,540	663,519
Abalone, white	18,797	—	4,324	5,003	4,520	1,430	1,123	5,903	307	12,247	14,820	9,539	9,414
Octopus	1,828	—	2,374	1,357	1,484	1,491	1,930	3,051	2,049	1,722	1,722	237	1,301
Oyster, pearl	70	—	—	98	—	109	—	65	94	174	137	137	1,148
Oysters, giant Pacific	68,601	58,959	82,127	78,463	67,130	43,727	24,609	55,918	52,200	72,747	96,172	24,623	77,849
Snail, sea	—	20	—	—	—	—	—	—	—	54	14	505	503
Squid	1,098,621	2,385,306	1,052,925	1,310,000	1,439,579	1,405,128	321,120	69,865	13,260	151,060	431,588	1,670,993	12,062,523
Molluscan mollusk	—	200	—	—	—	—	—	12	—	165	569	492	416
Total pounds	13,265,640	38,784,788	23,550,464	92,965,517	97,772,068	48,280,038	49,443,083	41,724,137	87,086,895	78,173,343	70,931,760	76,126,943	718,004,675
Grand total:	23,611,542	48,908,492	31,334,427	117,183,940	115,528,914	68,376,613	75,325,171	76,962,717	723,335,734	116,721,231	102,487,345	105,654,841	1,006,431,967

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

MARINE FISH

(1973)

17

TABLE 8—Cont'd.

TABLE 9
Monthly Landings of Commercial Fishing Boats in the Eureka Area During 1973

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Cabazon.....	157	543	21
Flounder.....	2,278	11,180	4,450	20,000	20,556	14,314	73,720	229,982	40,540	56,545	1,553	9,715	821,985
Grouper.....	9,925	13,000	9,000	21,761	17,104	14,241	18,558	196	5,080	21,900	16,854	283	3,022
Grenadiers.....	721	880	212,519
Hake.....	1,908	1,745	9,996	415	5,616
Hallibut, California.....	50	14,965
Herring, Pacific.....	18,530	1,955	50
Lingcod.....	11,438	38,972	41,144	47,479	87,289	188,810	267,059	451,275	208,043	140,548	9,250	3,670	24,155
Perch.....	467	1,420	498	3,233	11,109	3,781	1,908	1,908	20,232	27,363
Pike.....	244,804	419,811	491,241	459,000	389,132	445,616	630,250	807,321	463,208	602,321	69,561	288,055	5,320,530
Sablefish.....	210,123	251,610	514,802	437,803	643,921	519,392	47,914	550,915	486,107	510,152	116,114	399,975	5,098,051
Salmon.....	5,056	28,790	16,010	23,518	59,476	96,455	121,670	109,809	37,792	44,511	1,270	3,863	347,190
Sanddab.....	209	209	169	168	168	168	168	168	168	168	168	168	168
Skate.....	2,422	4,503	955	696	1,076	3,111	774	2,074	4,156	3,576	135	228	23,615
Smelt.....	50	245	978	43,832	51,854	108,265	151,077	196,827	78,893	246	632,267
Smelt, whitebait.....	4,066	32,669	23,832	50,626	108,306	71,769	77,183	3,370	164	372,885
Sole, Dover.....	200,411	112,218	1,283,218	1,347,114	1,347,114	1,347,114	1,347,114	1,347,114	1,347,114	1,347,114	1,347,114	1,347,114	14,210,269
Sole, green.....	17,445	131,314	114,014	131,253	138,079	101,630	138,629	370,266	184,824	139,869	6,257	19,229	1,333,027
Sole, petrale.....	209,208	105,334	69,049	36,576	54,141	61,793	75,957	151,174	105,186	90,665	4,751	370,095	1,342,679
Sole, rex.....	65,258	125,615	138,700	124,462	93,673	100,102	110,900	144,021	88,912	71,140	2,296	55,866	1,120,051
Sole, sand.....	1,630	6,848	1,911	13,014	27,485	3,843	9,173	21,860	12,200	10,169	2,050	1,919	103,771
Tuna, albacore.....	455	1,117	772
Turbot.....	155	1,769	1,168	561	386	1,734	1,061	980	789	117	334
Mullet.....	1	1,999	1
Miscellaneous.....	1,928	1,999	3,925
Miscellaneous (animal food).....
Crustacean:													
Crab, dungeness.....	224,657	156,297	31,601	69,154	60,356	35,254	16,561	16,993	240	610,876
Crab, rock.....	47,751	95,016	60,655	614,602	156,735	8,077	1,919
Shrimp, Pacific ocean.....	982,836

TABLE 9
Monthly Landings of Commercial Fishing Boats in the Eureka Area During 1973

Echinoderm:																		
Sea urchin.....	5,000	5,000	
Mollusk:																		
Octopus.....	868	3,313	1,932	602	824	1,190	1,015	2,374	1,507	1,632	136	725	16,418					
Oyster, giant Pacific.....	57,051	52,607	76,991	66,853	55,131	30,694	23,163	26,120	37,981	57,699	76,730	6,854	567,557					
Total pounds.....	1,361,090	1,949,155	2,636,329	2,944,699	6,028,703	6,197,407	5,927,547	5,278,167	4,196,018	3,401,945	480,019	1,778,005	42,049,174					
Waters north of State:																		
Fish:																		
Dab, round.....	70	330	4,999	30	531	398	46	46	85	1,005					
Flounder, arrowtooth.....	170	970	2,544	2,510	695	751	135	11,098						
Grouper, red.....	1,034	2,210	5,016	1,144	26	25	94,183					
Lingcod.....	1,141	1,435	7,569	8,729	26,014	22,423	15,243	7,962	1,616	309					
Rockfish.....	20,771	17,763	415	93,529	88,670	117,175	125,949	51,073	82,988	41,165	19,966	17,097	675,561					
Sablefish.....	19,886	16,999	91,612	145,505	160,983	160,697	80,181	137,816	65,977	35,108	26,641	911,165					
Sanddab.....	262	890	258	35	237	152	1,880					
Shad.....	24	128	132					
Skate.....	280	255	28	215	134	912					
Sole, Dover.....	63,708	9,673	331,136	548,377	573,941	584,191	232,371	514,309	238,383	120,261	111,700	3,325,500					
Sole, English.....	47	7,424	1,100	2,428	10,999					
Sole, green.....	640	1,255	1,026	2,212	2,928	3,241	4,766	2,360	4,456	172	22	210	35,588				
Sole, rex.....	5,917	7,276	610	11,274	19,517	13,544	15,437	14,420	2,814	3,316	992	7,186	95,303					
Sole, sand.....	240	250	30	181	70	77					
Total.....	45	45						
Crustacean:																		
Shrimp, Pacific ocean.....	47	7,424	1,100	2,428					
Mollusk:																		
Octopus.....	50	95	135	70	57	35	442					
Total pounds.....	110,922	58,707	8,960	549,507	821,768	903,879	933,617	394,558	758,404	355,783	177,231	162,614	5,238,950					
Grand total:	1,472,012	2,007,062	2,645,289	3,494,206	6,853,471	7,101,376	6,761,164	5,672,725	4,954,422	3,757,728	627,250	1,940,619	47,288,124					

19

TABLE 9—Cont'd.

TABLE 10
Monthly Landings of Commercial Fishing Boats in the San Francisco Area During 1973

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Anchovy.....	69,190	111,220	94,550	132,144	110,050	42,350	142,100	91,590	796,194			
Bonefish, Pacific.....	92	14	6,360	62	6,588			
Bottlenose, Pacific.....	80	231			
Cabron.....	7	503	513		
Croaker, white.....	370	20	290	4,230	6,167	6,123	6,124	8,885	5,569	2,277	1,655	515	42,623
Goby.....	100	100			
Flounder.....	1,468	7,004	5,575	7,689	5,984	20,713	16,246	9,616	8,220	19,213	2,085	1,529	105,972
Flounder, arrowtooth.....	2,800	5,533	355	290	250	350	2,543	825	1,875	75	1,731	12,627	
Gurnard.....	118	11	120	185	118	118	118	4,600	1,110	1,110	1,110	1,110	11,110
Haddock, California.....	1,645	1,595	945	1,375	158	2,220	3,111	7,930	5,499	5,500	3,195	1,343	34,323
Herring, Pacific.....	1,221,446	737,971	151,044	180	118,629	82,901	65,831	61,145	24,854	57,340	2,110,650	
Lingcod.....	10,688	8,903	9,314	17,222	19,777	63,576	486	2,052	3,615	425	543,180	
Mackerel, jack.....	48	99	125	73,000	
Muskrat, longjaw.....	83	172	89	152	141	205	106	70	123	30	25	1,288	163
Perch.....	2,206	3,141	7,312	10,752	1,067	864	1,886	443	995	2,928	31,591		
Rockfish.....	296,562	307,004	346,717	281,113	111,541	176,655	341,729	214,364	245,171	332,161	77,124	322,997	3,300,000
Salmon.....	138,326	155,753	210,712	152,100	154,633	101,350	141,350	127,250	78,000	18,778	2,599,033		
Salmon.....	2,083	8,136	4,575	11,893	52,625	340,573	329,353	403,465	360,402	148	2,229,719	
Sandab.....	27,659	22,855	15,560	7,315	9,760	8,781	172,925		
Seabass, white.....	3,676	2,280	1,655	2,185	3,290	2,501	5,125	6,558	7,107	5,073	5,447	39	
Skate.....	200	1,285	245	240	575	200	2,745	1,523	48,000
Smit.....	75	72	76	463	1,553	205	1,003	1,818	1,282	2,344	60	9,111	
Sole, Dover.....	628	972	1,729	604	914	919	1,524	919	1,524	1,524	1,524	1,524	9,235
Sole, English.....	113,011	384,690	567,470	451,608	313,079	266,770	244,411	392,961	698,311	433,796	71,500	320,709	4,262,521
Sole, petrale.....	84,327	45,095	25,060	62,176	70,924	88,047	66,444	110,215	98,828	73,344	74,399	90,837	891,569
Sole, petrale.....	116,347	63,154	52,446	41,120	59,694	34,657	64,804	53,785	56,585	41,810	25,764	133,885	763,851
Sole, red.....	48,120	33,168	16,793	18,262	7,680	3,708	9,060	18,070	25,100	20,157	12,230	12,230	
Sole, sand.....	2,209	1,063	5,265	10,106	5,066	21,945	8,895	24,820	12,037	9,625	12,390	4,172	112,528

TABLE 10
Monthly Landings of Commercial Fishing Boats in the San Francisco Area During 1973

Sole, miscellaneous.....	45	1,345	4,375	2,562	550	151	68	9,078	
Tuna, albacore.....	49	45	2,019	2,635	3,115	472	21,441	223,317	89,235	1,568	280	316,962	
Turbot.....	1,820	2,300	5,225	1,970	2,355	2,165	23,978	
Miscellaneous.....	2	2	
Crustaceans:													
Crab, dungeness.....	37,285	26,705	9,218	3,229	2,635	1,406	128,429	129,757	338,674	
Crab, rock.....	115	80	195	
Shrimp, Pacific ocean.....	67,657	178,394	246,031	
Echinoderm:													
Sea urchin.....	60	5,038	5,098	
Mollusk:													
Mussel, red.....	1,094	1,056	2,200	360	2,208	6,910	523	5,317	82	232	21,715	
Octopus.....	555	976	512	455	335	131	500	523	425	90	101	498	
Oyster, Eastern.....	70	61	95	7	109	65	10	94	171	137	5,191	
Oyster, East Pacific.....	4,880	1,392	5,133	11,694	12,008	13,028	11,096	29,798	14,947	14,569	19,296	17,203	
Total pounds.....	2,092,349	1,794,783	1,422,973	1,494,800	1,578,750	1,308,645	1,142,856	1,631,926	2,053,867	1,403,117	641,869	1,347,864	18,213,857
Weights north of State:													
Fish:													
Tuna, albacore.....	53,832	6,726	1,583	62,141	
Total pounds.....	53,832	6,726	1,583	62,141	
Grand total.....	2,092,349	1,794,783	1,422,973	1,494,800	1,578,750	1,308,645	1,142,856	1,631,926	2,053,867	1,403,117	643,542	1,347,864	18,276,028

MARINE FISH LANDINGS FOR 1973

21

TABLE 10—Cont'd.

TABLE 11
Monthly Landings of Commercial Fishing Boats in the Monterey Area During 1973

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish...													
Herring.....	373	251,683	50,900	11,400	20,600	1,985,200	2,596,410	2,321,300	524,400	135,200	8,077,406	16	15,540
Bonito, Pacific.....	24	1,347	2,502	152	11	2,768	8,917	3,828	13,142
Butterfish, Pacific.....	11	101	20	59	10	10	10	10	10	10	80	100	11,005
Cod, Pacific.....	465	11	101	101	101	101	101	101	101	101	101	101	101
Croaker, white.....	15,858	9,193	2,666	6,087	4,764	7,292	31,470	6,775	2,561	4,182	3,383	4,447	101,685
Eel.....													
Flounder.....	6,280	1,504	5,043	4,940	5,920	4,212	11,038	19,430	185	90	1,346	8,999	69,396
Hake, Pacific.....	34	14	29	1,150	1,257	1,380	12,749	74,481	244,710	102,800	15,275	11	11,105
Halibut, California.....	2,193	231	992	263	849	2,330	21,533	15,562	128	11	997	3,225	52,046
Herring, Pacific.....	50	49,550	192,705	96,461	275,926	39,770	24,800	5,100	300	684,666
Lingcod.....	49,832	37,823	67,444	52,288	63,922	81,984	39,296	35,443	14,733	32,800	55,757	56,297	617,000
Mackerel, jack.....	34	14	29	1,150	1,257	1,380	12,749	74,481	244,710	102,800	15,275	11	11,105
Perch.....	3	615	232	6,582	200	200	21	25	6	14	77	161	7,959
Rockfish.....	661,511	388,621	694,233	580,549	637,711	620,312	675,422	606,341	528,266	734,153	844,238	802,330	7,776,687
Sablefish.....	36,169	16,550	14,164	20,200	20,200	20,200	11,000	11,000	11,000	11,000	11,000	11,000	29,560
Salmon.....													
Sanddab.....	2,375	6,136	12,122	22,917	15,779	12,937	331,107	177,100	32,733	1,112,520	1,112,520
Sealabas, white.....	3	839	839	839	1,395	2,462	6,558	5,084	1,854	2,234	2,528	1,953	20,611
Shark.....	1,277	397	839	839	1,395	2,462	10,350	10,350	10,350	7,090	5,412	1,204	49,114
Skate.....	5,091	5,323	13,568	16,701	13,555	7,172	15,375	14,537	4,435	3,010	2,100	4,309	106,161
Smelt.....	11,005	6,308	1,764	166	633	3,469	10,875	2,111	61	455	36,880
Sole, Dover.....	150	10,050	14,565	12,910	14,568	12,910	5,428	15,570	6,575	2,118	225	225	116,446
Sole, green.....	21,852	21,774	27,480	30,680	47,720	36,180	44,180	38,380	38,380	21,220	23,220	23,220	100,214
Sole, petrale.....	26,813	29,150	22,192	16,220	23,667	15,913	36,207	59,833	26,039	19,225	9,645	3,385	290,280
Sole, rex.....	4,365	7,460	5,084	3,800	1,080	495	9,029	2,074	4,700	7,603	8,770	13,885	68,941
Sole, sand.....	570	50	110	395	1,595	362	712	530	325	115	155	855	5,774
Sole, rockfish.....	189	103	47	155	1,452	180	1,041	900	334	432	1,277
Tuna, albacore.....	446	7,068	177,855	144,769	401	331,726
Turbot.....	145	65	30	175
Miscellaneous (animal food).....	750	143	208
	750	720

TABLE 11
Monthly Landings of Commercial Fishing Boats in the Monterey Area During 1973

Crustacean:													
Crab, diggeress.....	31	144	69	74	29	322	669		
Crab, rock.....	3,486	335	43	112	261	568	64	32	1,040		
Prawn, spot.....	3,797	2,694	4,697	15,052		
Echinoderm:													
Sea urchin.....	696	696		
Mollusk:													
Squid.....	206	124,750	35	202	97	82	78	700		
Seal market.....	200	915,320	84,720	440	112,450	3,290	1,240,570		
Miscellaneous mollusk.....	12	212		
Total pounds.....	852,033	532,488	869,559	1,236,795	1,531,069	2,256,508	1,831,786	3,263,299	3,029,407	3,878,309	1,719,291	1,179,587	23,080,131
Waters north of State:													
Fish:													
Tuna, albacore.....	3,845	8,739	12,584	
Total pounds.....	3,845	8,739	12,584	
Grand total	852,033	532,488	869,559	1,236,795	1,531,069	2,256,508	1,831,786	3,267,144	3,938,146	3,878,309	1,719,291	1,179,587	23,092,715

MARINE FISH LANDINGS FOR 1973

23

TABLE 11—Cont'd.

TABLE 12
Monthly Landings of Commercial Fishing Boats in the Santa Barbara Area During 1973

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total Pounds
LANDINGS FROM:													
California Waters:													
Fish:													
Bass, yellow.....	12,550	1,151,050	775,000	52,400	60,100	3,402,800	7,180,250	7,733,000	6,480,000	6,561,300	33,427,600
Barracuda, California.....	2,888	12	189,929	4	13	82	106	106
Bonito, Pacific.....	901,628	314,236	128,631	81,991	264,394	1,886,709	18,969
Cabazon, Pacific.....	782	817	470	85	552	21	55	76	47	47	47
Croaker, white.....	105	105	105	105
Flounder.....	201	554	7,111	2,945	35	62	35	165	15	866	1,785	13,807
Hake, Pacific.....	250	10,245	5	5,650	5,650	725	18,969
Kelp, California.....	3,623	3,208	6,238	4,857	12,930	25,025	15,608	14,125	13,125	11,318	14,645	10,062	127,609
Lingcod.....	22,384	12,527	30,715	62,505	185,879	151,956	83,533	69,035	61,702	45,859	26,855	26,992	784,355
Mackerel, jack.....	11,600	6,399	1,892	3,200	379	23,380	23,380
Mackerel, Pacific.....	45	45	45	45
Percy's.....	867	669	895	3,716	7	6	7	790	2,885	1,516	2,063	1,291	1,628
Rockfish.....	267,177	328,916	350,655	341,207	472,168	412,037	381,229	320,240	255,589	317,323	232,325	135,001	3,816,731
Sabrefish.....	1,490	1,803	8,142	8,215	1,955	950	205	335	810	15,766	15,766
Sanddab.....	94	8,142	33,180	33,099	103,337	137,114	10,285	10	329,000
Sea bass, giant.....	6	40	81	80	80	233	233	233	228
Sebastodes, white.....	7,932	9,890	8,193	1,022	829	6,959	27,371	2,959	2,446	5,788	2,357	3,729	77,512
Shark.....	6,296	1,780	3,252	5,051	4,664	8,201	7,564	4,309	2,979	3,313	4,650	4,056	57,901
Sheepshead, California.....	26	45	45	66	7	31	31
Smelt.....	229
Sole, Dusky.....	65	80	6,005	8,235	8,325	11,000	11,665	7,295	1,880	2,100	1,084	61,553
Sole, English.....	42,640	71,005	57,277	15,872	16,288	10,357	8,142	11,027	17,990	32,801	21,131	25,973	333,233
Sole, petrale.....	16,825	18,297	28,480	48,035	80,795	34,397	18,442	41,750	66,145	30,214	27,534	47,980	458,861
Sole, rex.....	5,820	15,626	8,678	7,155	3,869	1,555	1,690	1,500	1,275	4,905	2,501	2,635	57,200
Sole, sand.....	1,045	553	3,149	500	625	2,491	1,149	115	4,211	4,211	4,211	4,211
Sole, scapellaeus.....	520	1,382	510	160	11	50	270	31	21	63	8	3,672	3,672
Swordfish.....	1,382	3,710	34,843	21,180	31,956	1,229	95,918

TABLE 12
Monthly Landings of Commercial Fishing Boats in the Santa Barbara Area During 1973

Tuna, albacore.....	---	---	---	751	240	1,186	5,524	197,402	1,620,821	1,462,492	15,266	55	342	3,301,505	
Turbot.....	---	---	---	---	---	---	---	---	315	---	---	---	---	2,889	
Yellowtail.....	---	---	---	---	---	---	---	---	164	36	447	---	---	41	
Miscellaneous.....	---	---	15	---	59	---	---	---	164	36	447	---	---	647	
Total, waters (human food).....	31,495	50,296	32,560	17,160	25,948	25,746	38,385	16,670	37,600	11,230	18,990	11,966	317,866		
Crustacean:															
Crab, dungness.....	5,971	7,302	6,965	9,601	8,265	8,716	7	6	8,743	17,048	72,621				
Crab, rock.....	10,291	12,975	26,563	24,803	18,276	20,828	26,339	21,448	12,241	11,274	13,917	29,240	223,165		
Prawn, spot.....	12,193	6,079	3,712	---	---	---	---	---	---	11,316	12,262	11,274	30,156		
Shrimp, Pacific ocean.....	---	---	---	---	---	110	---	---	---	---	---	9,332	0,332		
Echinoderm:															
Sea urchin.....	46,584	95,563	71,946	195,752	121,941	65,238	263,299	350,861	415,510	615,420	417,634	581,586	3,444,234		
Mollusk:															
Avalone, black.....	89,918	22,440	257,650	232,554	140,057	201,221	---	166,370	71,672	83,731	67,543	1,234,095			
Avalone, green.....	14	237	571	200	103	1,187	---	131	173	478	142	3,206			
Avalone, pink.....	19,985	16,626	8,283	17,171	9,924	11,472	1,860	10,725	12,323	16,518	14,059	139,748			
Avalone, red.....	72,457	43,531	73,213	60,294	52,294	63,582	420	53,331	61,271	52,294	32,331	52,294	32,331		
Avalone, threaded.....	25	132	1,616	399	217	54	---	62	203	108	202	3,018			
Avalone, white.....	40	---	192	90	37	307	402	362	82	---	---	1,512			
Octopus.....	185	80	---	165	53	53	402	402	402	402	402	483			
Squid, Pacific.....	6,620	4,960	---	---	---	---	---	556	556	556	556	556	13,207		
Snail, sea.....	---	---	---	---	---	---	---	---	---	---	145	145			
Squid, market.....	190,600	315,566	364,150	---	427,640	---	31,800	12,406	---	---	143,300	1,888,840			
Total pounds.....	1,788,931	958,392	1,101,500	2,292,406	2,527,319	1,124,881	1,345,582	5,072,398	10,296,554	10,642,245	7,542,547	8,016,358	52,685,113		
Waters north of State:															
Fish:															
Tuna, albacore.....	---	---	---	---	---	---	---	---	24,277	---	---	---	24,277		
Total pounds.....	---	---	---	---	---	---	---	---	24,277	---	---	---	24,277		
Grand total.....	1,788,931	958,392	1,104,500	2,282,406	2,527,319	1,124,881	1,345,582	5,072,398	10,320,831	10,642,245	7,542,547	8,016,358	52,709,390		

MARINE FISH LANDINGS FOR 1973

5

TABLE 12—Cont'd.

TABLE 13
Monthly Landings and Shipments of Commercial Fish into the Los Angeles Area During 1973

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fishes													
Anchovy.....	175,600	45,769	871,631	43,653,816	35,722,924	36,596	58,412	2,832,751	7	39,398,240	25,969,440	37,494,222	36,710,884
Bluefin, California.....	727	5,825	26,271	2,717	7	39	631	1,800	12,222
Blacksmith.....	8,000	4,000	12,000
Bonito, Pacific.....	2,744,856	563,453	1,031,830	500,560	41,323	206,546	1,369,781	1,499,763	2,576,565	3,042,902	913,741	1,827,379	16,519,132
Butterfish, Pacific.....	1,521	9,383	36,618	8,018	14,423	1,191	1,332	562	1,430	2,058	813	3,063	81,167
Cod, speaker, white.....	3,433	6,465	9,215	10,549	24,534	2,566	865	1,027	9,000	2,696	6,307	5,523	82,182
Eel, green.....	10	10	15	15	30
Flyingfish.....	55,317	52,209	22,570	30,885	160,981
Gullion, California.....	77	63	2,901	650	1,192	10,520	2,069	888	596	60	422	190
Hake, California.....	17,49
Lingcod.....	281	73	10	4	3	7	10	215	603
Mackerel, jack.....	241,465	42,4915	472,768	689,501	1,445,835	6,836,226	3,425,535	1,782,245	222,600	3,134,773	1,166,945	168,065	20,008,494
Mackerel, Pacific.....	125	1,512	42	4,405	33,930	2,320	392	3,685	6,500	125	23,296
Marlin, blue.....	155	286	4,500	19,100	2,521	2,098	1,793	2,093	293	2,773
Percy.....	329	222	557	2,064	452	16,438	1,560	1,116	5210	1,136	1,535	1,136	32,269
Queenfish.....	1,250	495	930	8,880	16,770	200	21,356	15,637	13,752	23,770	63,216	611,311
Rockfish.....	84,751	116,333	40,630	90,746	85,927	29,468	25,725	786	598	598	1,223
Salmon.....	9,461	7,445	5,023	3,430	111	18	906	1,035
Sanddab.....	10	17	27
Sardine, Pacific.....	1,189	825	20,550	23,330	12,840	27,110	14,545	16,300	13,783	715	452	131,699
Sargo.....	5,375
Seal, California.....	565	239	282	63	535	593	100	371	610	360	255	453	4,426
Sea bass, giant.....	239	90	1,098	3,087	2,572	69	118	21,495	9,124	37,651
Seabass, white.....	3,335	4,168	4,623	947	4,141	6,573	48,447	140,823	18,247	5,594	2,891	5,691	214,853
Sole, petrale.....	79	79

P.F.H.

BULLETIN

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TABLE 13
Monthly Landings and Shipments of Commercial Fish into the Los Angeles Area During 1973

MARINE FISH LANDINGS FOR 1973

27

Sole, miscellaneous.....	15	311	235	52	33	646
Swordfish.....	127	10,941	50,049	84,767	60,995	110,531	349,109
Tuna, albacore.....	13,282	30,009	30,009	1,258,957	1,881,669
Tuna, longtail.....	51	28,661	318,597	632,411	8,189	13	1,888,065
Tuna, skipjack.....	370	370
Wahoo.....	192	464	325	1,174	2,988	411	2,117	2,091	4,045
Miscellaneous.....	59	17	134	2,182
Crustacean:	9,400
Crab, pelagic red.....	9,400
Crab, rock.....	41,802	48,688	61,704	9,400	63,587	65,982	73,362	70,365	60,861
Lobster, California spiny.....	10,905	10,939	7,029	23,005
Echinoderm:
Sea urchin.....	4,800	6,700	2,200	1,300	40,157
Mollusk:
Abalone, black.....	7,235	210	3,137	19,920	85,991	168,992	83,492	192	43,799	31,888
Abalone, green.....	24,686	210	11,718	24,400	26,265	14,514	12,762	11,507
Abalone, purple.....	24,720	210	2,727	15,156	10,200	9,789	12,147	14,841	14,841
Abalone, red.....	180	176	82	1,402	13,558	12,730
Abalone, threaded.....	281	90	1,395
Abalone, white.....	14,110	3,915	3,204	1,038	155	2,965	9,023	9,175
Oyster, bay.....	14	35	55	114
Snail, sea.....	20	54	14
Squid, market.....	1,907,850	2,069,356	680,775	1,210,900	886,100	578,831	296,700	34,625	890	38,600
Total pounds.....	4,905,372	3,349,009	3,289,030	46,486,260	38,546,260	8,175,850	6,038,812	7,200,462	42,784,329	33,896,462
Waters north of State:
Fish:
Tuna, albacore.....	9,290	299,716	24,577
Total pounds.....	9,290	299,716	24,577
Waters south of State:
Fish:
Bonito, Pacific.....	1,172	205	170	75,597	2,051,386	1,635,235	2,084,035	429,179	429,137
Dolphinfish.....	3,900	4,070
Hammerhead, California.....	105	200	22	30
Perch.....	164	605	769
Rockfish.....	134	189	788	158	60	4,918
Salmon.....	18	18
Seal, harbor.....	235	323
Sea bass, giant.....	2,529	9,120	9,616	1,375	93	1,291
Seabass, white.....	7,690	9,027	42,576	36,176	34,131	352	1,553	6,515
Shark.....	1,069	5,992
Total pounds.....	14,192	14,192	14,192	14,192	14,192	14,192	14,192	14,192	14,192	14,192

TABLE 13—Cont'd.

TABLE 13
Monthly Landings and Shipments of Commercial Fish into the Los Angeles Area During 1973

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Swordfish, California	561	110	110
Tuna, albacore	2,754	87,144	89,898
Tuna, bigeye	20,915	159,055	41,711	27,750	1,03,525	27,710
Tuna, yellowfin	2,765	30,415	33,440	795,027	2,819,420	3,411,316	3,444,448	365,428	197,815	11,098,104	10,932
Tuna, skipjack	336,799	494,562	1,097,703	983,441	3,699,373	3,085,902	1,231,986	1,190,213	1,377,610	1,408,580	2,471,927	1,052,297	18,400,433
Tuna, skipjack, black	264,140	330,505	240,184	172,553	66,505	1,074,287
Tuna, yellowfin	1,383,356	27,665,647	11,162,345	28,770,857	29,372,382	13,295,831	18,935,559	6,901,296	11,725,562	14,864,938	12,657,334	14,431,650	196,764,757
Whitefish, ocean	519	7,400	5,000	36	57	10,100
Yellowtail	11,298	1,925	3,357	11,768	72,475	17,725	3,810	2,375	12,205	388	137,323
Crustacean:													
Crab, pelagic red	42,565	43,700	86,325
Total pounds	1,746,697	27,770,366	12,548,748	30,327,534	33,451,909	19,490,250	24,771,224	13,504,937	17,254,081	17,169,943	15,999,272	15,614,609	229,769,570
Central Pacific Islands:													
Fish:													
Tuna, skipjack	5,018	5,018
Tuna, yellowfin	15,272	15,272
Total pounds	20,290	20,290
Shipments:^a													
Fish:													
Tuna, albacore	2,464,210	2,079,351	1,485,262	4,652,065	3,994,794	5,070,374	8,555,891	5,816,243	10,108,112	4,031,161	3,022,283	2,611,148	60,851,407
Tuna, bigeye	67,198	112,321	1,710	23,310	86,002	44,716	47,810	231,568	77,630	42,891	33,925	2,200	771,181
Tuna, bluefin	100,265	286,933	3,024,276	1,192,440	1,658,302	126,655	496,261	1,100,100	1,032,983	1,044,101	1,044,101	8,885,632
Tuna, yellowfin	4,010,562	5,051,390	4,010,562	6,864,779	7,443,003	1,110,100	11,820	10,094	16,827,729	26,459,295	18,180,576	23,231,617	148,000,401
Tuna, skipjack, black	25,445	47,369
Tuna, yellowfin	2,181,224	1,490,428	1,021,351	4,684,626	1,965,111	5,128,487	4,289,018	7,494,688	2,661,311	2,153,015	1,725,134	1,380,351	33,775,077
Total pounds	8,823,449	8,733,869	7,014,710	19,339,556	14,281,050	17,673,771	23,682,390	31,523,380	29,070,682	33,586,365	22,962,018	27,645,316	214,967,147
Grand total	15,475,518	38,653,235	22,882,488	96,163,350	86,279,819	45,339,871	54,512,716	52,328,779	89,718,352	84,952,488	79,506,060	83,640,438	750,643,112

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

TABLE 13
Monthly Landings and Shipments of Commercial Fish into the Los Angeles Area During 1973

TABLE 14
Monthly Landings and Shipments of Commercial Fish Into the San Diego Area During 1973

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds	MARINE FISH LANDINGS FOR 1973
LANDINGS FROM: California waters:														
Fish:														
Barracuda, California.....	54	34	13	188	200	2,565	19	6	147	344	34	50	262	6,219
Bottlenose, Pacific.....	6,679	6,996	703	2,968	10,019	5,238	19,312	18,151	20,462	5,139	1,779	97,361	97,361
Cabazon.....	53	5	53	5
Croaker, white.....	54	441	135	169	11	103	913	913
Dolphinfish.....	290	635	925	925
Dolfin.....	16	5	23	23
Floounder.....	36	137	230	116	130	89	738	738
Halfmoon.....	762	1,025	687	1,316	864	916	544	110	120	1,112	1,556	9,012	9,012
Haddock, California.....	1,540	199	408	2,317	7,424	70	9,555	2,982	2,089	1,016	293	510	25,490	25,490
Lamprey.....	109	9	238	23	1,947	101	121	78	212	151	151
Mackerel, jack.....	174	364	964	680	629	648	8	90,825	93,819	93,819
Mackerel, Pacific.....	1,781	818	167	2,978	2,978
Mullet.....	2,599	2,599
Oarfish.....	1,198	1,198
Pacific halibut.....	2,315	575	30	1,774	2,353	1,018	2,756	1,470	1,498	124	667	383	15,193	15,193
Queenfish.....	24	108	108
Rudderfish.....	40,092	81,581	52,712	87,335	70,003	42,496	35,037	31,561	48,752	77,611	93,159	97,361	751,290	751,290
Saltfish.....	57	331	203	66	1,197	1,197	1,197
Salmon.....	12	14	19	45	45
Sanddab.....	8	6	20	68	102	102
Sardine, Pacific.....	7,830	11,450	2,876	5,598	6,722	710	511	281	19,510	19,510
Seabass, giant.....	1,747	870	474	5,681	2,876	7,444	5,598	5,598	524	367	230	62	33,508	33,508
Sea bass, white.....	37,402	9,115	7,771	7,282	8,020	20,917	50,774	71,197	6,750	3,017	8,844	6,304	238,293	238,293
Shark.....	5,700	895	1,434	4,284	20,157	42,596	40,277	7,473	9,556	5,460	17,782	5,974	161,590	161,590
Shorthead, California.....	394	154	154	75	75	21	359	12	20	125	125
Sole, English.....	12	20	163	8	32	32
Sole, petrale.....	121	20	183	183

29

TABLE 14
Monthly Landings and Shipments of Commercial Fish Into the San Diego Area During 1973

TABLE 14
Monthly Landings and Shipments of Commercial Fish Into the San Diego Area During 1973—Continued

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Sole, miscellaneous	3	73	457	307	323	189	74	3,658	665	16	5,775
Swordfish	4,917	19,894	33,112	37,126	64,336	6,953	106,338	
Tuna, albacore	532	12,066	56,232	711,310	67,293	847,467	
Tuna, skipjack	1,949	4,465	424	325	63	1,972
Tuna, yellowfin	150	1,539	6,414
Turbot	9,755
Whiting	82	422	516	66	9	78	223	33
Yellowtail	3,855	4,091	121	2,372	7,896	16,244	4,245	3,065	11,535	7,184	2,677	380	1,403
Miscellaneous	20	2	62	55	3	142
Crustaceans:													
Lobster, rock	5,253	6,281	7,007	7,231	4,070	1,856	1,533	1,323	1,102	1,935	1,551	2,938	43,083
Lobster, California spiny	10,736	7,388	5,908	41,481	15,333	10,112	88,648
Echinoderm:													
Sea urchin	2,400	2,400
Mollusk:													
Ahalone, black	235	4,435	21,745	17,229	43,390	5,632	8,800	2,101	6,372	109,939	
Ahalone, green	1
Ahalone, green	998	443	1,863	6,679	4,396	3,418	8,073	1,111	1,163	991	864	29,099
Ahalone, pink	4,126	5,519	10,269	7,789	11,963	23,887	2,350	10,251	8,556	6,115	11,897	103,969
Ahalone, red	6,240	13	15
Ahalone, red	214	4,827	10,368	6,121	4,010	2,362	37	6,785	7,286	4,962	15,176	68,174
Ahalone, threaded	161	127	33	12	72	103	366	284	214	1,709
Ahalone, white	4,687	1,048	1,316	206	878	2,901	2,822	5,283	5,231	6,807	31,184
Oyster	12	12
Scallop, sea	35	35
Squid, market	171	1,086	1,277	5,382	98,803	106,719
Total pounds	135,036	126,703	88,938	156,426	179,798	213,126	257,705	194,055	229,147	966,934	247,481	372,738	3,165,697
Waters north of State:													
Fish:													
Tuna, albacore	25,686	119,101	144,787
Total pounds	25,686	119,101	144,787

TABLE 14
Monthly Landings and Shipments of Commercial Fish Into the San Diego Area During 1973

Waters south of State:											
Fish:											
Baracuda, California.....											
.....	102,857	117,417	1,663	58	213,163	1,023,801	650,655	747,814	689,350	825,696	51,618
Dolphinfish.....	1,049	139,561
Grouper.....	40	495	102	64	5,032,816
Halibut, California.....	41	1,150	1,150
Mackerel, Pacific.....	1,899	1,375	585	322	569	310	78
Rockfish.....	39	9,948	9,901	11,752	3,187	3,490	5,708	1,646	5,106
Sea bass, giant.....	200	1,083	1,277	2,238	25,518	335	5,728	224	85,053
Seabass, white.....	227	431	2,272	15,152	13,554	25,130	398	22	203	1,186
Shark.....	30	4,248	4,901	6,796	6,294	22,231
Sole, miscellaneous.....	310	606	372	29	1,588
Swordfish.....	60,422	33,011	17,350	126	174	212,411
Tuna, albacore.....	101,628	11,636
Tuna, bigeye.....	207	129,677	84,553	28,784	243,301
Tuna, bluefin.....	41,297	163,467	195,898	430,405	2,001,450	1,969,240	2,271,742	2,546,893	583,273	309,980	8,109,706
Tuna, skipjack, black.....	2,329	1,012	9,543	1,644	96,415	1,900,575	961,187	398,290	754,100	1,452,618
Tuna, yellowfin.....	125,770	1,661,013	1,374,401	6,900,772	10,819,521	4,693,945	2,757,818	981,652	1,808,319	3,757,495	1,258,124
Yellowtail.....	70	115	253	3,079	6,828	2,793	1,204	715	463	1,626
Crustacean:	196	15,617
Squid, market.....	503	503
Total pounds.....	272,610	2,245,185	1,581,424	7,407,090	13,103,492	8,594,162	6,970,672	5,080,490	5,466,294	6,033,062	3,607,607
Central Pacific Islands:											
Fish:	15,230	15,230
Total pounds.....	15,230	15,230
SHIPMENTS: ^a											
Fish:
Tuna, albacore.....	87,428	133,979	119,879	100,928	41,874	101,951	495,927	2,814	1,214,861	1,575,334	204,867
Tuna, bigeye.....	14,402	158,179	128,100	45,260	3,256	111,261
Tuna, skipjack.....	478,927	545,710	37,597	1,803,516	2,519,794	711,081	321,402	1,645,304	4,006,656	4,425,849	8,227,594
Tuna, yellowfin.....	956,100	711,155	581,789	3,089,621	913,325	2,481,303	1,231,453	833,114	970,559	287,547	1,670,450
Total pounds.....	1,522,453	1,390,844	739,256	4,978,867	3,475,196	3,422,801	2,199,696	3,715,200	6,578,157	4,961,523	8,593,567
Grand total.....	1,930,699	3,782,732	2,409,618	12,542,383	16,758,486	12,245,332	9,426,073	12,296,284	12,080,620	12,448,655	9,529,971

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

MARINE LANDINGS FOR 1973

31

TABLE 14—Cont'd.

TABLE 15
Value of Landings and Shipments of Commercial Fish Into California by Area, 1973

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
<i>Fish:</i>							
Anchovy.....	796,194	8,077,468	33,427,650	222,970,297	262	265,271,871	
	\$67,136	\$219,087	\$859,448	\$5,500,433	\$38	\$6,646,142	
Barracuda, California.....	—	—	106	31,222	6,277	37,605	
	—	—	\$27	\$14,747	\$1,997	\$16,771	
Blacksmith.....	—	—	—	12,000	—	12,000	
	—	—	—	\$360	—	\$360	
Bonito, Pacific.....	6,508	15,540	1,886,703	23,728,784	5,150,180	30,787,731	
	\$694	\$1,363	\$185,283	\$2,444,652	\$570,029	\$3,202,021	
Butterfish, Pacific.....	234	13,142	407	81,107	53	94,943	
	\$248	\$9,127	\$102	\$33,625	\$21	\$43,126	
Cabezon.....	721	512	1,015	2,301	—	5	4,554
	\$58	\$42	\$111	\$98	\$1	\$10	
Croaker, white.....	42,213	101,683	105	82,182	813	227,966	
	\$9,276	\$10,526	\$16	\$11,113	\$236	\$31,466	
Dolphinfish.....	—	—	—	4,070	1,974	5,044	
	—	—	—	\$627	\$447	\$1,074	
Eel.....	160	34	—	160	28	382	
	\$8	\$5	—	\$32	\$7	\$52	
Flounder.....	524,990	105,972	68,368	13,807	—	738	714,903
	\$43,652	\$9,093	\$10,152	\$1,491	—	\$168	\$61,556
Flounder, arrowtooth.....	223,617	12,627	—	—	—	—	236,244
	\$11,581	\$653	—	—	—	—	\$12,234
Flyingfish.....	—	—	—	160,981	—	160,981	
	—	—	—	\$32,197	—	\$32,197	
Grenadiers.....	61,350	9,510	—	—	—	—	70,860
	\$3,067	\$175	—	—	—	—	\$3,542
Grouper.....	—	—	—	—	1,150	1,150	
	—	—	—	—	\$632	\$632	
Hake, Pacific.....	14,065	—	1,150	16,960	—	—	34,075
	\$724	—	\$23	\$379	—	—	\$1,126
Halfmoon.....	—	—	—	—	2,767	9,012	11,779
	—	—	—	—	\$731	\$2,624	\$3,355
Halibut, California.....	50	34,522	52,046	137,609	20,106	29,193	273,526
	\$35	\$16,960	\$29,043	\$83,911	\$11,416	\$18,382	\$159,747
Herring, Pacific.....	24,155	2,110,650	684,662	—	—	—	2,819,467
	\$982	\$69,838	\$36,860	—	—	—	\$107,680
Lingcod.....	1,613,362	543,180	617,609	784,355	603	512	3,559,821
	\$177,489	\$53,940	\$74,676	\$82,304	\$125	\$85	\$388,619
Mackerel, jack.....	7,049	483,085	23,380	20,008,494	93,819	20,615,827	
	\$455	\$27,745	\$3,347	\$955,967	\$4,141	\$991,655	
Mackerel, Pacific.....	541	—	45	53,206	3,056	56,848	
	\$27	—	\$7	\$3,598	\$705	\$1,337	
Mudsucker, longjaw.....	1,286	—	—	—	—	1,286	
	\$5,678	—	—	—	—	\$5,678	
Mullet.....	—	—	—	—	2,599	2,599	
	—	—	—	—	\$1,040	\$1,040	
Opaleye.....	—	—	74	23,276	—	338	23,688
	—	—	\$44	\$1,242	\$90	\$4,376	
Perch.....	29,323	31,594	7,959	15,877	33,038	20,209	138,000
	\$7,040	\$12,132	\$1,807	\$5,540	\$6,493	\$5,416	\$38,428
Queenfish.....	—	—	—	39,300	106	39,406	
	—	—	—	\$1,315	\$18	\$1,333	
Rockfish.....	5,903,091	3,066,110	7,776,687	3,876,731	617,155	812,681	22,052,455
	\$493,968	\$294,305	\$768,682	\$377,705	\$124,464	\$192,239	\$2,251,363
Sablefish.....	6,027,249	1,590,033	888,403	15,766	27,423	1,197	8,550,071
	\$463,490	\$123,477	\$69,301	\$940	\$3,262	\$130	\$660,570
Salmon.....	5,700,647	2,226,719	1,412,520	328,000	1,053	45	9,669,384
	\$1,585,630	\$2,303,744	\$1,451,184	\$366,563	\$1,298	\$41	\$5,001,166
Sanddab.....	549,044	172,925	181,675	228	77	102	804,001
	\$78,605	\$24,775	\$20,461	\$22	\$6	\$25	\$123,894
Sardine, Pacific.....	—	—	—	131,699	19,900	151,599	
	—	—	—	\$21,756	\$4,975	\$26,731	
Sargo.....	—	—	—	295	—	295	
	—	—	—	\$71	—	\$71	
Sculpin.....	—	—	—	4,749	154,111	158,860	
	—	—	—	\$2,024	\$56,406	\$58,430	
Seabass, giant.....	—	—	434	75,816	14,587	90,837	
	—	—	\$109	\$25,064	\$5,334	\$30,507	
Seabass, white.....	39	20,611	77,512	411,024	299,717	808,905	
	\$27	\$11,227	\$43,430	\$233,750	\$186,584	\$475,018	
Senorita.....	—	—	—	5,375	—	5,375	
	—	—	—	\$161	—	\$161	
Shark.....	6,815	48,096	48,484	57,004	74,474	183,821	418,436
	\$687	\$3,923	\$4,267	\$10,178	\$14,271	\$49,110	\$82,436

TABLE 15
Value of Landings and Shipments of Commercial Fish Into California by Area, 1973

TABLE 15
Value of Landings and Shipments of Commercial
Fish Into California by Area, 1973—Continued

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Sheephead, California.....	229	1,715	1,128	3,072
Skate.....	24,527	2,745	106,161	\$21	\$268	\$184	\$473
\$2,402	\$143	\$2,771	\$5,316
Smelt.....	632,267	9,641	36,880	31	246,221	925,040
\$50,162	\$1,721	\$4,729	\$12	\$14,493	\$71,120
Smelt, whitebait.....	372,885	9,255	382,140
\$48,102	\$1,636	\$49,738
Sole, Dover.....	18,045,201	4,262,521	116,448	61,555	22,485,725
\$1,835,114	\$104	\$1,144	\$77	\$2,406,731
Sole, English.....	1,578,985	65,599	405,864	332,253	32	3,207,733
\$16,617	\$131,979	\$54,019	\$41,823	\$9	\$14,417
Sole, petrale.....	1,363,726	763,851	290,289	458,864	76	183	2,876,889
\$270,383	\$147,981	\$54,330	\$86,046	\$20	1,558,833
Sole, rex.....	216,254	242,339	68,941	57,200	1,584,734
\$175,685	\$36,402	\$7,915	\$7,876	\$227,878
Sole, sand.....	104,748	112,526	5,774	17,294	240,342
\$17,045	\$18,599	\$908	\$2,893	\$39,445
Sole, miscellaneous.....	772	9,078	4,727	3,372	646	5,804	24,399
\$48	\$1,431	\$756	\$459	\$99	\$1,788	\$1,581
Swordfish.....	95,918	349,700	167,926	613,544
....	\$122,746	\$436,863	\$213,188	\$772,797
Tuna, albacore.....	1,060,991	378,804	343,960	3,325,782	2,311,220	1,220,885	8,640,852
\$414,357	\$150,701	\$135,514	\$1,317,670	\$1,559,589	\$1,500,570	\$1,002,301
Tuna, bigeye.....	681,162	245,301	90,593	926,053
....	\$159,481	\$58,027	\$217,508
Tuna, bluefin.....	12,076,199	8,111,008	20,187,207
....	\$2,852,215	\$1,872,099	\$4,724,314
Tuna, skipjack.....	18,405,821	11,403,460	29,809,281
....	\$4,152,391	\$2,560,284	\$6,712,675
Tuna, skipjack, black.....	1,074,287	317,706	1,391,993
....	\$80,655	\$23,828	\$104,483
Tuna, yellowfin.....	190,780,022	42,013,932	232,793,961
....	\$45,896,063	\$10,105,454	\$56,001,517
Turbot.....	9,325	23,978	175	2,889	33	36,400
....	\$1,431	\$1,638	\$9	\$284	\$10	\$3,372
Wahoo.....	10,921	4,137	15,058
....	\$1,016	\$1,173	\$5,210
Whitefish, ocean.....	41	140	103	254
....	\$8	\$16	\$227	\$251
Yellowtail.....	647	155,780	79,195	235,622
....	\$169	\$23,423	\$14,772	\$38,364
Miscellaneous.....	1	2	208	74	251	142	678
....	\$1	\$2	\$51	\$13	\$93	\$61	\$221
Miscellaneous (animal food).....	3,925	750	317,906	322,581
....	\$412	\$15	\$6,359	\$6,786
Crustacean:							
Crab, dungeness.....	610,876	338,674	699	72,624	1,022,873
\$176,242	\$324,420	\$702	\$66,148	\$867,512
Crab, pelagic red.....	95,725	95,725
....	\$13,184	\$13,184
Crab, rock.....	1,910	195	1,040	228,195	661,365	43,063	955,788
....	\$19	\$65	\$23,942	\$115,579	\$8,941	\$148,146
Lobster, California spiny.....	59,756	84,775	88,648	233,179
....	\$100,766	\$145,192	\$151,250	\$397,208
Prawn, spot.....	15,052	9,332	24,384
....	\$20,232	\$8,651	\$28,886
Shrimp, Pacific ocean.....	993,635	246,031	110	1,239,976
\$179,261	\$40,615	\$16	\$219,892
Echinoderm:							
Sea urchin.....	5,000	5,098	696	3,444,234	137,267	2,400	3,594,695
\$250	\$400	\$56	\$267,546	\$11,299	\$216	\$279,767
Mollusk:							
Abalone, black.....	1,334,095	468,915	109,939	1,912,949
....	\$254,137	\$78,726	\$18,156	\$351,019
Abalone, flat.....	1	\$1
....	1	\$1
Abalone, green.....	3,206	123,599	29,999	156,804
....	\$1,935	\$65,027	\$17,247	\$84,209
Abalone, pink.....	139,748	127,642	103,962	371,352
....	\$79,932	\$69,729	\$56,562	\$206,223
Abalone, pinto.....	15	15
....	\$5	\$5

TABLE 15
Value of Landings and Shipments of Commercial Fish Into California by Area, 1973

TABLE 15
Value of Landings and Shipments of Commercial
Fish Into California by Area, 1973—Continued

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Abalone, red.....	21,715	568,770	5,260	68,174	663,919		
	\$11,892	\$327,289	2,672	\$40,885	\$382,738		
Abalone, threaded.....	3,018	281	1,709	5,008			
		\$891	\$102	\$505	\$1,498		
Abalone, white.....	1,512	50,416	31,184	83,112			
		\$1,110	\$29,854	\$20,392	\$51,356		
Octopus.....	16,860	5,191	700	483	114	23,348	
	\$2,621	\$706	\$230	\$67	\$44	\$3,698	
Oyster, eastern.....	1,148	-----	-----	-----	-----	1,148	
	\$4,018					\$4,018	
Oyster, giant Pacific.....	567,557	144,963	13,207	-----	12	725,739	
	\$652,691	\$166,707	\$8,188		\$14	\$827,600	
Snail, sea.....	-----	145	413	35	593		
		\$14	\$43	\$7	\$64		
Squid, market.....	-----	1,240,970	1,488,840	9,224,600	107,222	12,061,832	
		\$65,976	\$31,112	\$329,694	\$7,788	\$431,570	
Miscellaneous mollusk.....	212	-----	-----	-----	212		
		\$15	-----	-----	-----	\$15	
Total pounds.....	47,288,124	18,276,028	23,092,715	52,709,390	505,675,965	70,962,453	718,004,675
Total value.....	\$10,479,399	\$4,474,184	\$3,104,094	\$4,784,847	\$64,886,929	\$16,780,573	\$104,510,026
SHIPMENTS:[*]							
Fish:							
Tuna, albacore.....	-----	-----	-----	60,851,497	4,155,512	65,007,009	
				\$30,534,742	\$2,070,068	\$32,604,810	
Tuna, bigeye.....	-----	-----	-----	771,181	111,261	882,442	
				\$286,878	\$49,889	\$336,767	
Tuna, bluefin.....	-----	-----	-----	6,885,632	286,279	7,171,911	
				\$2,215,289	\$66,130	\$2,281,419	
Tuna, skipjack.....	-----	-----	-----	142,636,401	26,392,289	169,028,690	
				\$42,457,674	\$8,188,853	\$50,646,527	
Tuna, skipjack, black.....	-----	-----	-----	47,359	-----	47,359	
				\$2,795	-----	\$2,795	
Tuna, yellowfin.....	-----	-----	-----	33,775,077	12,514,804	46,289,881	
				\$12,030,058	\$4,159,279	\$16,189,337	
Total pounds.....	-----	-----	-----	244,967,147	43,480,145	288,427,292	
Total value.....	-----	-----	-----	\$87,527,436	\$14,534,219	\$102,061,655	
GRAND TOTAL POUNDS	47,288,124	18,276,028	23,092,715	52,709,390	750,643,112	114,422,598	1,006,431,967
GRAND TOTAL VALUE	\$10,479,399	\$4,474,184	\$3,104,094	\$4,784,847	\$152,414,365	\$31,314,792	\$206,571,681

* 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, 1973

TABLE 16
Value of Landings by Port, Eureka Area, 1973

	Pounds	Value
Eureka		
Salmon.....	2,247,252	\$1,918,530
Dover sole.....	10,381,849	1,040,685
Giant Pacific oyster.....	567,557	652,691
Rockfish.....	2,953,321	244,351
Sablefish.....	3,101,734	235,505
Albacore.....	461,238	180,131
Dungeness crab.....	223,096	173,927
Petrale sole.....	821,520	162,881
Rex sole.....	692,482	100,027
English sole.....	713,945	97,944
Lingcod.....	611,220	67,241
Sanddab.....	451,609	64,656
Smelt.....	603,404	47,212
Whitebait smelt.....	281,355	36,295
Flounder.....	271,698	22,391
Pacific ocean shrimp.....	63,008	11,365
Arrowtooth flounder.....	99,499	5,153
Sail sole.....	23,395	3,807
Perch.....	12,934	3,125
Grenadiers.....	58,660	2,933
Octopus.....	7,727	1,202
All other species.....	36,501	2,959
Port totals.....	24,795,204	\$5,086,611
Fort Bragg		
Salmon.....	2,449,334	\$2,146,728
Dover sole.....	3,156,355	318,642
Albacore.....	539,128	210,550
Sablefish.....	1,878,023	144,409
Rockfish.....	1,603,211	136,231
Petrale sole.....	319,783	63,403
Dungeness crab.....	70,077	54,632
Lingcod.....	453,647	49,907
English sole.....	181,703	24,940
Rex sole.....	97,164	14,035
Whitebait smelt.....	35,891	4,630
Arrowtooth flounder.....	70,109	3,631
Smelt.....	27,312	2,819
Octopus.....	7,896	1,227
Pacific ocean shrimp.....	3,410	615
All other species.....	17,494	1,569
Port totals.....	10,910,627	\$3,177,968
Crescent City		
Salmon.....	737,244	\$586,007
Dover sole.....	4,496,997	453,984
Dungeness crab.....	259,630	202,409
Pacific ocean shrimp.....	927,417	167,281
Rockfish.....	1,340,652	112,867
English sole.....	683,247	93,733
Sablefish.....	1,047,431	80,541
Rex sole.....	426,608	61,623
Lingcod.....	545,566	60,019
Petrale sole.....	222,418	44,098
Albacore.....	69,625	23,676
Flounder.....	253,102	21,045
Sanddab.....	92,229	13,204
Sail sole.....	81,143	13,204
Whitebait smelt.....	55,639	7,177
Perch.....	16,389	3,915
All other species.....	47,967	3,724
Arrowtooth flounder.....	54,009	2,797
Port totals.....	11,348,313	\$1,951,304

TABLE 16
Value of Landings by Port, Eureka Area, 1973

TABLE 16
Value of Landings by Port, Eureka Area, 1973—Continued

	Pounds	Value
Trinidad		
Salmon.....	153,803	\$119,679
Dungeness crab.....	58,073	45,274
All other species.....	957	88
Port totals.....	212,833	\$165,041
Albion		
Salmon.....	60,240	\$53,214
All other species.....	6,235	596
Port totals.....	66,475	\$53,810
All other ports		
Salmon.....	52,774	\$44,472
All other species.....	1,898	193
Totals.....	54,672	\$44,665
EUREKA AREA TOTALS.....	47,288,124	\$10,479,399

TABLE 16
Value of Landings by Port, Eureka Area, 1973

TABLE 17
Value of Landings by Port, San Francisco Area, 1973

	Pounds	Value
San Francisco		
Dover sole.....	2,611,100	\$268,467
Rockfish.....	2,381,679	231,244
Dungeness crab.....	145,211	139,099
Petrale sole.....	662,271	128,302
Salmon.....	114,605	118,918
English sole.....	593,790	87,896
Sablefish.....	1,004,589	78,013
Lingcod.....	416,177	41,329
Rex sole.....	193,524	29,069
Sanddab.....	150,572	21,573
Sand sole.....	110,242	18,221
Albacore.....	35,999	14,322
California halibut.....	20,815	10,226
Pacific herring.....	263,649	8,724
Flounder.....	84,306	7,234
Shark.....	31,635	2,589
White croaker.....	7,714	1,695
Turbot.....	23,254	1,588
All other species.....	21,343	3,025
Port totals.....	8,872,475	\$1,211,534
Bodega Bay		
Salmon.....	775,521	\$801,461
Dover sole.....	1,77,006	114,848
Dungeness crab.....	69,558	66,630
Rockfish.....	495,844	45,471
English sole.....	287,369	42,538
Pacific ocean shrimp.....	246,031	40,615
Sablefish.....	298,480	23,179
Petrale sole.....	91,649	17,755
Lingcod.....	116,634	11,582
Albacore.....	24,326	9,678
Rex sole.....	42,131	6,329
Sanddab.....	18,888	2,766
Whitebait smelt.....	8,098	1,431
Smelt.....	5,664	1,019
All other species.....	40,954	3,655
Port totals.....	3,638,156	\$1,188,897
Princeton		
Salmon.....	772,321	\$801,229
Dungeness crab.....	86,708	83,059
Red abalone.....	21,715	11,892
California halibut.....	13,035	6,404
Rockfish.....	58,576	5,775
All other species.....	31,011	2,941
Port totals.....	983,366	\$911,300
Sausalito		
Salmon.....	288,697	\$299,671
Albacore.....	212,256	84,444
Anchovy.....	795,544	67,081
Dover sole.....	324,079	33,321
Pacific herring.....	644,239	21,317
Sablefish.....	229,377	17,813
Rockfish.....	83,322	7,851
Dungeness crab.....	3,391	3,248
Petrale sole.....	9,404	1,822
All other species.....	29,339	3,457
Port totals.....	2,619,648	\$540,025
Point Reyes		
Giant Pacific oyster.....	128,035	\$147,240
Salmon.....	125,154	130,789
Dungeness crab.....	14,097	13,504
All other species.....	2,639	244
Port totals.....	269,925	\$291,777

TABLE 17
Value of Landings by Port, San Francisco Area, 1973

TABLE 17
Value of Landings by Port, San Francisco Area, 1973—Continued

	Pounds	Value
Oakland		
Salmon.....	126,063	\$126,869
Albacore.....	105,809	42,095
Dover sole.....	210,336	21,626
Dungeness crab.....	14,120	13,526
Sablefish.....	57,526	4,467
Rockfish.....	40,839	3,359
All other species.....	12,436	1,795
Port totals.....	567,129	\$213,737
Marshall		
Pacific herring.....	1,040,110	\$34,416
All other species.....	3,170	1,399
Port totals.....	1,043,280	\$35,815
Tomales Bay		
Giant Pacific oyster.....	16,928	\$19,467
Eastern oyster.....	1,148	4,018
Perch.....	9,801	3,775
All other species.....	11,241	1,046
Port totals.....	39,118	\$28,306
Berkeley		
Salmon.....	20,647	\$20,975
Dungeness crab.....	4,659	4,463
Perch.....	3,053	1,183
All other species.....	4,397	465
Port totals.....	32,756	\$27,086
Richmond		
White croaker.....	29,823	\$6,554
Perch.....	11,025	4,222
Salmon.....	3,572	3,688
All other species.....	1,539	364
Port totals.....	45,959	\$14,828
San Leandro		
Pacific herring.....	155,682	\$5,151
Port totals.....	155,682	\$5,151
All other ports		
Longjaw mudsucker.....	1,286	\$3,678
Perch.....	2,979	1,138
All other species.....	4,269	912
Totals.....	8,534	\$5,728
SAN FRANCISCO AREA TOTALS.....	18,276,028	\$4,474,184

TABLE 17
Value of Landings by Port, San Francisco Area, 1973

TABLE 18
Value of Landings by Port, Monterey Area, 1973

	Pounds	Value
Monterey		
Rockfish.....	7,612,270	\$749,082
Salmon.....	476,555	488,737
Lingcod.....	571,156	69,059
Sablefish.....	890,264	67,106
Market squid.....	1,158,170	61,574
Petrale sole.....	228,251	42,719
English sole.....	304,818	40,570
Anchovy.....	1,418,805	38,483
Jack mackerel.....	461,018	26,478
Spot prawn.....	15,052	20,232
Pacific herring.....	315,710	16,997
Sanddab.....	128,541	14,477
Albacore.....	36,012	14,188
Dover sole.....	90,500	7,891
White croaker.....	75,700	7,836
California halibut.....	13,526	7,548
Bex sole.....	64,888	7,447
Shark.....	36,489	3,165
Pacific butterfish.....	4,420	3,070
Smelt.....	17,380	2,167
Flounder.....	12,042	1,762
Skate.....	65,773	1,717
All other species.....	12,803	2,420
Port totals.....	13,980,123	\$1,694,725
Moss Landing		
Salmon.....	823,154	\$845,974
Anchovy.....	6,658,663	180,604
Albacore.....	305,799	120,479
Pacific herring.....	368,641	19,846
Rockfish.....	137,079	16,325
English sole.....	100,432	13,367
Petrale sole.....	61,365	11,485
Sanddab.....	52,964	5,965
Lingcod.....	40,822	4,936
Market squid.....	82,800	4,402
Smelt.....	18,035	2,416
California halibut.....	4,226	2,358
Dover sole.....	25,943	2,263
Sablefish.....	27,754	2,165
Flounder.....	9,982	1,460
Jack mackerel.....	21,537	1,237
Pacific bonito.....	11,651	1,022
All other species.....	47,989	3,776
Port totals.....	8,798,841	\$1,240,080
Santa Cruz		
Salmon.....	112,811	\$116,473
California halibut.....	34,294	19,137
White seabass.....	20,129	10,964
Flounder.....	47,372	6,930
Pacific butterfish.....	8,722	6,057
Rockfish.....	27,338	3,275
White croaker.....	23,483	2,431
All other species.....	39,602	4,022
Port totals.....	313,751	\$169,289
MONTEREY AREA TOTALS.....	23,092,715	\$3,104,094

TABLE 18
Value of Landings by Port, Monterey Area, 1973

TABLE 19
Value of Landings by Port, Santa Barbara Area, 1973

	Pounds	Value
Morro Bay		
Albacore.....	1,920,290	\$760,816
Rockfish.....	2,141,389	208,941
Salmon.....	153,470	171,473
Red abalone.....	100,354	57,747
Lingcod.....	525,890	55,183
Petrale sole.....	239,826	44,972
Dungeness crab.....	48,749	44,402
Sea urchin.....	281,993	21,905
White seabass.....	23,596	13,221
Giant Pacific oyster.....	13,207	8,188
California halibut.....	10,564	6,442
English sole.....	44,144	5,540
Rex sole.....	21,955	3,023
Perch.....	6,047	2,057
Rock crab.....	13,467	1,389
Shark.....	7,440	1,267
All other species.....	36,366	3,927
Port totals.....	5,588,747	\$1,410,493
Santa Barbara		
Black abalone.....	1,331,054	\$253,558
Red abalone.....	424,257	244,131
Sea urchin.....	2,810,020	218,281
Rockfish.....	1,301,906	123,207
Swordfish.....	64,931	83,092
Pink abalone.....	134,338	76,838
California spiny lobster.....	37,638	63,468
California halibut.....	84,730	51,666
Pacific bonito.....	265,566	26,080
White seabass.....	46,501	26,055
English sole.....	202,300	25,400
Petrale sole.....	91,105	17,084
Rock crab.....	109,304	11,277
Spot prawn.....	9,332	8,654
Miscellaneous (animal food).....	274,386	5,488
Rex sole.....	32,850	4,523
Dover sole.....	26,360	2,645
Lingcod.....	23,857	2,503
Shark.....	13,230	2,352
Albacore.....	5,895	2,336
Green abalone.....	3,206	1,935
All other species.....	5,303	2,173
Port totals.....	7,298,159	\$1,252,746
Port Hueneme		
Anchovy.....	33,427,650	\$859,448
Pacific bonito.....	1,612,533	158,358
Market squid.....	1,488,840	31,112
Swordfish.....	22,656	28,993
California halibut.....	18,112	11,044
Sea urchin.....	91,046	7,072
Shark.....	24,113	4,472
California spiny lobster.....	1,847	3,115
White seabass.....	5,123	2,870
Jack mackerel.....	17,800	2,548
Rock crab.....	18,437	1,902
All other species.....	18,362	3,377
Port totals.....	36,746,519	\$1,114,311

TABLE 19
Value of Landings by Port, Santa Barbara Area, 1973

TABLE 19
Value of Landings by Port, Santa Barbara Area, 1973—Continued

	Pounds	Value
Avila		
Albacore.....	1,399,597	\$554,518
Salmon.....	174,289	194,811
Rockfish.....	407,515	41,692
Red abalone.....	43,829	25,221
Lingcod.....	234,608	24,618
Petrale sole.....	127,809	23,967
Dungeness crab.....	23,862	21,734
English sole.....	83,872	10,526
Rock crab.....	83,283	8,592
California halibut.....	12,905	7,869
Perch.....	9,808	3,475
Dover sole.....	29,625	2,973
Sand sole.....	17,224	2,881
All other species.....	88,863	5,226
Port totals.....	2,737,089	\$928,103
Oxnard		
California spiny lobster.....	19,936	\$33,618
Sea urchin.....	150,586	11,697
Swordfish.....	1,729	9,891
California halibut.....	11,274	6,875
Rockfish.....	18,205	2,858
Pink abalone.....	4,029	2,304
All other species.....	6,291	976
Port totals.....	218,050	\$68,219
Ventura		
Sea urchin.....	110,589	\$8,591
All other species.....	10,237	2,384
Port totals.....	120,826	\$10,975
SANTA BARBARA AREA TOTALS.....	52,709,390	\$4,784,847

TABLE 19
Value of Landings by Port, Santa Barbara Area, 1973

TABLE 20
Value of Landings and Shipments by Port, Los Angeles Area, 1973

	Pounds	Value
Terminal Island		
Landings:		
Yellowfin tuna.....	190,328,406	\$45,787,416
Anchovy.....	220,719,010	5,444,896
Skipjack tuna.....	18,400,789	4,151,256
Bluefin tuna.....	11,441,866	2,702,395
Pacific bonito.....	20,951,273	2,158,499
Albacore.....	2,299,173	952,564
Jack mackerel.....	17,243,948	823,883
Bigeye tuna.....	661,892	159,481
Black skipjack tuna.....	1,074,287	80,655
Smelt.....	53,000	3,122
Sea urchin.....	33,242	2,736
Pacific mackerel.....	40,162	2,716
Wahoo.....	7,217	2,674
Market squid.....	67,000	2,395
All other species.....	53,622	7,533
Total landings.....	483,376,887	\$62,282,221
Shipments: *		
Skipjack tuna.....	142,636,401	\$42,457,674
Albacore.....	60,851,497	30,534,742
Yellowfin tuna.....	33,775,077	12,030,058
Bluefin tuna.....	6,885,632	2,215,289
Bigeye tuna.....	771,181	286,878
Black skipjack tuna.....	47,359	2,795
Total shipments.....	244,967,147	\$87,527,436
Port totals.....	728,344,034	\$149,809,657
San Pedro		
Landings:		
Swordfish.....	264,857	\$330,873
Market squid.....	9,156,053	327,244
Pacific bonito.....	2,599,740	267,837
White seabass.....	383,054	217,842
Bluefin tuna.....	634,333	149,820
Jack mackerel.....	2,523,111	120,549
Yellowfin tuna.....	451,623	108,647
Rockfish.....	520,568	102,115
California spiny lobster.....	56,803	97,285
Rock crab.....	505,099	85,679
Black abalone.....	468,762	78,700
Pink abalone.....	124,562	68,046
Green abalone.....	115,615	60,827
Pacific butterfish.....	81,107	33,628
Flyingfish.....	160,318	32,064
White abalone.....	50,281	29,774
Giant sea bass.....	75,539	24,972
Yellowtail.....	150,711	22,661
Pacific sardine.....	130,709	21,592
Anchovy.....	783,115	19,319
California barracuda.....	31,159	14,718
Shark.....	67,407	12,854
White croaker.....	81,369	11,299
California halibut.....	18,707	10,622
Smelt.....	139,389	8,200
Albacore.....	10,349	4,288
Sablefish.....	27,415	3,261
Red abalone.....	5,260	2,672
Opaleye.....	13,986	2,549
Sea urchin.....	26,841	2,210
Perch.....	7,292	1,966
Sculpin.....	3,853	1,642
Queenfish.....	39,300	1,315
Wahoo.....	3,385	1,284
Skipjack tuna.....	5,032	1,135
All other species.....	113,468	14,431
Port totals.....	19,830,172	\$2,293,890

* Beginning in 1965 only tuna shipments are recorded.

TABLE 20
Value of Landings and Shipments by Port, Los Angeles Area, 1973

TABLE 20
Value of Landings and Shipments by Port, Los Angeles Area, 1973—Continued

	Pounds	Value
Newport Beach		
Landings:		
Swordfish.....	62,073	\$77,545
Rockfish.....	30,442	8,639
California spiny lobster.....	3,022	5,176
Sea urchin.....	50,131	4,127
All other species.....	11,128	2,487
Port totals.....	162,796	\$97,964
Wilmington		
Landings:		
Anchoy.....	1,143,468	\$28,208
Jack mackerel.....	240,934	11,511
Pacific bonito.....	93,018	9,583
Swordfish.....	3,060	3,823
Smelt.....	53,832	3,171
Rock crab.....	7,161	1,215
All other species.....	10,280	4,191
Port totals.....	1,551,753	\$61,702
Dana Point		
Landings:		
California spiny lobster.....	10,142	\$17,370
Swordfish.....	8,173	10,210
White seabass.....	14,809	8,422
Rockfish.....	31,247	7,375
Sea urchin.....	14,750	1,214
All other species.....	18,353	3,382
Port totals.....	97,474	\$47,973
Redondo Beach		
Landings:		
Rock crab.....	142,984	\$24,254
California spiny lobster.....	7,094	12,150
Rockfish.....	16,427	3,469
Green abalone.....	6,184	3,253
Pink abalone.....	2,248	1,228
All other species.....	1,839	1,063
Port totals.....	176,776	\$45,417
Long Beach		
Landings:		
Anchoy.....	324,668	\$8,009
Pacific bonito.....	69,445	7,155
Rock crab.....	9,785	1,660
California spiny lobster.....	641	1,098
Sea urchin.....	10,015	824
All other species.....	2,685	1,663
Port totals.....	417,239	\$20,409
Malibu		
Landings:		
California spiny lobster.....	3,971	\$6,801
Swordfish.....	3,141	3,924
White seabass.....	3,767	2,142
Rockfish.....	7,683	1,813
All other species.....	5,317	1,045
Port totals.....	23,879	\$15,725
Santa Monica		
Landings:		
Swordfish.....	4,964	\$6,201
White seabass.....	6,655	3,785
All other species.....	3,303	515
Port totals.....	14,922	\$10,501

TABLE 20
Value of Landings and Shipments by Port, Los Angeles Area, 1973

TABLE 20
Value of Landings and Shipments by Port, Los Angeles Area, 1973—Continued

	Pounds	Value
Avalon		
Landings:		
California spiny lobster.....	2,299	\$3,937
Swordfish.....	2,534	3,166
All other species.....	1,673	459
Port totals.....	6,506	\$7,562
Playa Del Rey		
Landings:		
Rock crab.....	13,328	\$2,261
All other species.....	2,259	1,112
Port totals.....	15,587	\$3,373
All other ports		
All species.....	1,974	\$192
Totals.....	1,974	\$192
LOS ANGELES AREA TOTALS.....	750,643,112	\$152,414,385

TABLE 20
Value of Landings and Shipments by Port, Los Angeles Area, 1973

TABLE 21
Value of Landings and Shipments by Port, San Diego Area, 1973

	Pounds	Value
San Diego:		
Landings:		
Yellowfin tuna.....	42,013,932	\$10,105,454
Skipjack tuna.....	11,403,460	2,560,284
Bluefin tuna.....	8,110,873	1,872,068
Pacific bonito.....	5,130,279	567,826
Albacore.....	1,219,573	506,283
Swordfish.....	158,577	201,319
Rockfish.....	701,513	165,748
White seabass.....	251,307	156,447
California spiny lobster.....	77,483	132,199
Bigeye tuna.....	243,301	58,027
Pink abalone.....	103,752	56,448
Sculpin.....	154,111	56,406
Red abalone.....	68,174	40,885
Shark.....	125,431	33,717
Black skipjack tuna.....	317,706	23,828
White abalone.....	31,184	20,302
Black abalone.....	109,889	18,148
Green abalone.....	29,637	17,039
California halibut.....	20,455	12,880
Yellowtail.....	64,415	12,015
Market squid.....	107,222	7,788
Rock crab.....	37,197	7,720
Giant sea bass.....	14,128	5,166
Pacific sardine.....	19,900	4,975
Perch.....	16,911	4,532
Jack Mackerel.....	63,819	4,141
California barracuda.....	5,932	1,887
Wahoo.....	4,137	1,173
All other species.....	23,866	6,263
Total landings.....	70,658,164	\$16,661,058
Shipments: *		
Skipjack tuna.....	26,392,289	\$8,188,853
Yellowfin tuna.....	12,514,804	4,159,279
Albacore.....	4,155,512	2,070,068
Bluefin tuna.....	286,279	66,130
Bigeye tuna.....	111,261	49,889
Total shipments.....	43,460,145	\$14,534,219
Port totals.....	114,118,309	\$31,195,277
Oceanside		
Landings:		
White seabass.....	48,201	\$30,007
Rockfish.....	110,246	26,271
Shark.....	58,390	15,393
California spiny lobster.....	8,622	14,711
Swordfish.....	9,349	11,869
California halibut.....	8,738	5,502
Yellowtail.....	14,780	2,757
Halfmoon.....	8,787	2,558
Pacific bonito.....	19,901	2,203
All other species.....	12,881	3,384
Port totals.....	299,895	\$114,655
All other ports		
California spiny lobster.....	2,543	\$4,340
All other species.....	1,851	520
Port totals.....	4,394	\$4,860
SAN DIEGO AREA TOTALS.....	114,422,598	\$31,314,792

* Beginning in 1965 only tuna shipments are recorded.

TABLE 21
Value of Landings and Shipments by Port, San Diego Area, 1973

TABLE 22
Statewide Commercial Partyboat Catch by Species
(Not including anchored barges)
1964-1973 *

Species	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973
Barracuda, California	203,070	443,304	892,697	470,480	372,246	358,518	373,301	50,474	382,43	92,483
Bass, largemouth, inland	1,293,391	1,286,312	1,259,441	1,059,441	1,324,441	451,759	92,359	94,414	100,759	100,759
Bonito, Pacific	1,298,894	806,322	644,415	319,552	1,102,936	1,130,241	611,508	152,735	415,984	472,451
Cabron	6,491	7,575	10,293	5,419	4,349	4,583	6,372	4,611	11,452	7,551
Hallibut, California	115,217	170,332	170,332	170,332	170,332	170,332	170,332	170,332	170,332	170,332
Lingcod	24,282	51,260	41,075	43,559	42,149	32,605	41,533	63,239	101,965	80,778
Mackerel, jack	6,577	23,619	19,027	16,236	13,588	11,272	15,725	10,611	5,913	15,789
Mackerel, Pacific	101,219	151,896	205,090	108,266	78,933	130,036	129,770	224,223	245,880	190,104
Rockfish	99,581	1,281,430	1,081,355	2,114,355	1,597,191	2,096,124	2,227,191	3,383,124	3,078,141	3,078,141
Salmon	92,021	51,677	70,151	84,946	127,581	111,389	88,301	150,512	131,595	121,476
Solepin	73,544	71,888	69,851	63,280	59,963	63,011	82,822	84,913	65,886	81,475
Sebastas, white	14,901	9,775	3,972	3,385	4,138	4,006	4,359	5,265	3,858	7,083
Sheepshead, California	29,942	41,051	32,047	42,476	33,978	40,426	39,494	34,349	35,541	40,514
Tuna, albacore	112,388	99,771	11,580	96,491	11,519	48,827	11,519	160,361	84,590	95,834
Tuna, bluefin	693	92	1,998	3,166	1,231	1,470	1,833	749	1,470	5,347
Whitefish, ocean	6,949	13,810	15,587	18,184	22,155	36,474	40,990	29,800	24,532	42,362
Yellowtail	39,104	18,367	80,163	31,392	38,049	79,202	37,376	44,608	50,031	221,287
All others	114,600	165,263	166,470	145,673	205,410	431,277	298,373	421,729	303,253	321,253
Total number of fish	4,434,178	4,634,558	5,408,420	4,444,164	5,731,201	5,725,575	6,630,835	4,604,152	5,462,405	5,923,478
Number of anglers	695,145	588,103	857,000	780,102	819,651	802,811	873,327	728,126	792,618	880,100

* See Fish Bulletin 121 for historical records 1936-1961.

TABLE 22
Statewide Commercial Partyboat Catch by Species (Not including anchored barges) 1964-1973

TABLE 23
Inshore Bait Landings by Area Pounds and Value 1973

Species	Sacramento	San Francisco and Monterey	Los Angeles	San Diego	Statewide*
Clam					
Freshwater-----	688,931	---	---	---	688,931
	\$92,122				\$92,122
Gaper-----	---	---	---	---	67
					\$19
Jackknife-----	---	---	31,505	11,881	43,386
			\$26,054	\$7,234	\$33,288
Purple-----	---	---	482	13,894	14,376
			\$283	\$6,998	\$7,281
Softshell-----	---	---	---	---	134
					\$27
Carp-----	---	---	---	---	1,481
					\$726
Crab					
Sand-----	99	6,331	1	6,431	
	\$44	\$16,428	\$5	\$16,477	
Shore-----	---	189	8	197	
		\$965	\$155	\$1,120	
Crayfish-----	---	---	---	---	3,994
					\$1,805
Mudsucker, longjaw-----	2,082	2,716	---	23	4,821
	\$2,684	\$4,046		\$25	\$6,755
Mussel (bay and rock)-----	135	81,577	13,423	95,135	
		\$13	\$17,208	\$1,646	\$18,867
Sculpin, staghorn-----	271	233	---	---	504
	\$955	\$877			\$1,832
Shrimp					
Bay-----	61,176	1,132	---	---	62,308
	\$112,501	\$3,042			\$115,543
Brine-----	---	---	---	---	1,422,360
					\$254,891
Ghost-----	---	---	---	---	12,766
					\$40,397
Red-----	---	---	931	5	936
			\$931	\$27	\$958
Total-----	752,460	4,315	121,015	39,235	2,357,827
	\$208,262	\$8,022	\$61,569	\$16,090	\$592,108

* 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 1973

TABLE 24
Recorded Catch of Live Bait for Saltwater Sportfishing 1969–1973

Species	Thousands of pounds*				
	1969	1970	1971	1972	1973
Anchovy-----	10,627	12,210	12,774	11,700	12,432
Mackerel, jack-----	103	---	9	5	120
Mackerel, Pacific-----	8	---	1	---	75
Sardine, adult-----	34	---	---	T	---
Sardine, juvenile-----	---	6	T	T	---
Squid-----	9	4	10	16	66
Miscellaneous-----	---	---	---	---	80
Total pounds-----	10,781	12,220	12,794	11,721	12,773
Number of Vessels†-----	10	11	14	12	11

* 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 reported here should be considered minimal because some fishing operations utilize more than one vessel simultaneously or alternately, while others do not volunteer catch information at all.

TABLE 24
Recorded Catch of Live Bait for Saltwater Sportfishing 1969–1973

California Ocean Recreational Salmon Landings and Success¹ by Fishery, Port, Month and Species, in Numbers of Fish—1973

	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	0	0	a	0	0	a	0	0	a	0	107	a	52	60	0.4
	a	a	a	a	1,158	1,033	0.7	2,081	3,921	0.7
Eureka																		
Partyboat.....	0	0	a	0	0	a	0	0	a	122	219	a	320	573	1.3	502	900	0.8
Skiff.....	a	a	a	a	1,456	5,735	1.4	3,190	7,996	0.8
Fort Bragg																		
Partyboat.....	0	0	a	8	14	a	6	11	a	110	195	a	465	697	a	1,264	724	0.5
	a	a	a	a	990	553	0.5	2,113	1,809	0.3
San Francisco																		
Partyboat.....	4,038	6	0.9	10,113	84	1.4	14,235	385	1.6	7,848	367	1.0	11,236	37	1.2	22,560	21	1.6
Skiff.....	2,187	0	0.4	4,771	49	1.0	4,626	284	1.2	4,762	63	1.2	4,720	27	0.9	15,171	108	2.0
Monterey																		
Partyboat.....	69	0	a	142	0	a	205	0	a	256	0	a	262	0	a	303	0	a
Skiff.....	543	0	0.1	1,256	0	0.3	1,433	8	1.0	611	579	0.2	417	0.2	0.2	4,096	222	0.4
Statewide																		
Partyboat.....	4,107	6	0.9	10,293	98	1.4	14,536	396	1.6	8,336	752	1.0	12,583	1,414	1.2	24,882	1,695	1.5
Skiff.....	2,730	0	0.3	6,007	49	0.7	6,059	292	1.1	5,373	633	0.6	8,925	7,817	0.8	26,681	11,056	0.8

TABLE 25
California Ocean Recreational Salmon Landings and Success¹ by Fishery, Port, Month and Species, in Numbers of Fish—1973—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.....	22	24	0.3	0	0	*	0	0	*	0	0	*	0	0	*	65	161	0.4
	807	1,098	0.4	36	60	0.1	--	--	--	--	--	--	--	--	*	4,082	6,132	0.6
Eureka Partyboat.....	273	492	*	57	103	*	1	4	*	0	0	*	0	0	*	1,275	2,291	1.3
	1,408	1,866	0.5	258	224	0.3	--	--	--	--	--	--	--	--	*	6,309	15,521	0.8
Fort Bragg Partyboat.....	58	0	0.1	4	0	*	1	0	*	0	0	*	0	0	*	1,916	1,612	0.5
	250	500	0.3	0	0	0.0	--	--	--	--	--	--	--	--	*	3,383	2,894	0.5
San Francisco Partyboat.....	18,239	102	1.3	11,784	64	1.3	9,297	8	1.3	4,757	0	1.0	0	0	*	114,207	1,074	1.3
	7,919	64	1.2	3,666	0	0.9	2,411	0	0.8	881	0	0.7	0	0	*	32,810	595	1.1
Monterey Partyboat.....	197	0	*	14	0	*	41	0	1.0	237	0	*	0	0	*	2,016	0	1.0
	1,010	27	0.3	519	28	0.2	1,105	69	0.3	716	0	0.9	0	0	*	11,870	1,341	0.3
Statewide Partyboat.....	18,799	618	1.3	11,850	167	1.3	9,310	12	1.3	4,994	0	1.0	0	0	*	119,499	5,158	1.3
	11,387	3,235	0.6	6,479	312	0.5	3,316	69	0.5	1,297	0	0.8	0	0	*	78,454	26,483	0.7

¹ Salmon per angler-day, species combined.

* No sampling.

MARINE FISH LANDINGS FOR 1973

TABLE 25
California Ocean Recreational Salmon Landings and Success by Fishery, Port, Month and Species, in Numbers of Fish—1973

TABLE 26
California Commercial Troll Salmon Landings by Port—Area, Month and Species, in Pounds¹ and Numbers—1973

	April		May		June		July		August		September		Season	
	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
Crescent City														
King.....	3,450	241	88,685	10,369	31,108	5,812	74,520	8,669	4,081	492	1,673	162	222,317	25,608
Silver.....	0	0	63,474	14,893	27,845	50,932	150,711	25,369	3,956	603	640	82	561,626	92,901
Pink.....	0	0	36	10	1,666	470	7,460	1,595	0	0	0	0	9,162	2,075
Eureka														
King.....	61,191	7,353	80,727	10,118	62,530	55,048	190,991	30,014	8,252	1,103	3,512	475	1,770,212	194,111
Silver.....	0	0	316,181	69,150	190,448	33,171	54,315	8,784	22,473	3,222	5,538	514	1,586,963	114,967
Pink.....	0	0	410	112	238	55	34,230	6,745	0	0	0	0	34,878	6,912
Fort Bragg														
King.....	22,472	2,323	149,989	18,182	812,737	74,387	600,492	73,700	36,511	3,841	16,004	1,808	1,728,205	174,254
Silver.....	0	0	83,744	17,397	58,675	58,385	112,145	13,200	6,655	769	1,154	131	750,666	125,723
Pink.....	0	0	18	6	30,739	7,205	12,639	2,463	0	0	0	0	43,416	7,074
San Francisco														
King.....	264,854	31,878	509,052	60,365	301,954	32,281	299,640	33,071	44,994	3,577	357,397	37,829	2,129,805	242,412
Silver.....	0	0	17,323	3,388	33,095	5,111	29,713	4,174	10,437	1,278	3,152	37	96,237	14,267
Pink.....	0	0	339	196	337	111	0	0	0	0	0	0	676	217
Monterey														
King.....	143,871	18,274	308,090	35,359	430,773	44,850	431,300	44,761	310,040	29,230	93,019	7,809	1,726,093	180,283
Silver.....	0	0	3,274	604	3,769	34	4,158	546	4,227	430	0	0	15,360	2,911
Pink.....	0	0	0	0	157	50	0	0	0	0	0	0	157	50
Statewide														
King.....	495,838	60,072	1,948,443	224,396	2,232,111	212,478	1,688,943	192,245	751,892	79,673	471,605	48,104	7,586,832	816,968
Silver.....	0	0	485,929	105,432	1,080,700	175,321	357,245	56,764	71,178	6,402	8,484	1,104	1,591,935	313,935
Pink.....	0	0	393	214	53,137	7,071	34,910	10,153	0	0	0	0	88,289	15,558

¹ Dressed, head on.

TABLE 26
California Commercial Troll Salmon Landings by Port—Area, Month and Species, in Pounds and Numbers—1973

APPENDICES

APPENDIX I
Monthly Landings From Inland Waters During 1973

Species	January	February	March	April	May	June	July	August	September	October	November	December	Totals
LANDINGS													
Fish													
Blackfish, Sacramento	47,290	34,850	71,565	45,800	21,200	12,490	46,515	20,320	302,918
Carp	62,974	15,821	45,412	12,165	10,200	15,362	44,164	19,742	223,870
Lamprey	914	914
Lake trout	26,160	16,655	18,100	63,915
Hitch	2,200	2,200
Shad, American	738	80	818
Sockeye salmon	30	30
Crustacean													
Crayfish	747	465	163	40	14,089	48,457	33,479	1,299	1,771	1,661	642	354	103,197
Mollusk													
Snail, freshwater	100	100
Amphibia													
Frog	90	337	1,352	1,465	1,168	1,846	2,317	1,262	677	1,097	39	132	11,812
Total pounds.	140,329	70,503	136,702	60,384	49,657	50,303	35,828	2,581	2,448	28,520	91,358	40,558	709,149

MARINE FISH LANDINGS FOR 1973

51

APPENDIX I
Monthly Landings From Inland Waters During 1973

APPENDIX II
Value of Landings From Inland Waters by County During 1973

County and species	Pounds	Value	County and species	Pounds	Value
Alameda			San Diego		
Crayfish.....	3,913	\$2,639	Carp.....	3,026	\$536
Lamprey.....	914	350	County totals.....	3,026	\$536
Frog.....	11,047	7,065			
County totals.....	15,874	\$10,054			
Fresno			San Francisco		
Crayfish.....	43	\$99	Shad, American.....	120	\$7
Frog.....	2	3	County totals.....	120	\$7
County totals.....	45	\$102			
Humboldt			San Joaquin		
Frog.....	187	\$131	Carp.....	6,263	\$948
Shad, American.....	698	35	Crayfish.....	496	156
County totals.....	885	\$166	Frog.....	131	92
			Snail, freshwater.....	100	20
Kern			County totals.....	6,990	\$1,216
Carp.....	450	\$270			
Hardhead.....	600	60	Solano		
Sucker.....	30		Carp.....	13,709	\$2,074
County totals.....	1,080	\$330	Crayfish.....	33,676	10,566
Lake			County totals.....	47,385	\$12,640
Blackfish, Sacramento.....	302,948	\$212,064			
Carp.....	198,662	30,058	Contra Costa		
Hardhead.....	62,660	6,266	Carp.....	760	\$115
Hitch.....	2,200	220	County totals.....	760	\$115
County totals.....	566,470	\$248,608			
Madera			Yolo		
Frog.....	39	\$55	Crayfish.....	186	\$58
County totals.....	39	\$55	Frog.....	406	284
Merced			County totals.....	592	\$342
Carp.....	1,000	\$150			
County totals.....	1,000	\$150	Grand total.....	709,149	\$294,680
Sacramento					
Crayfish.....	64,883	\$20,359	Recap		
County totals.....	64,883	\$20,359	Blackfish, Sacramento.....	302,948	\$212,064
			Carp.....	223,870	34,151
			Lamprey.....	914	350
			Hardhead.....	63,280	6,326
			Hitch.....	2,200	220
			Shad, American.....	818	42
			Sucker.....	30	
			Frog.....	11,812	7,630
			Crayfish.....	103,197	33,877
			Snail, freshwater.....	100	20
			Grand total.....	709,149	\$294,680

APPENDIX II
Value of Landings From Inland Waters by County During 1973

APPENDIX III
KELP HARVEST IN TONS

Year	Open Beds	Leased Beds	Total Tons
1916.....	134,537.00	----	134,537.00
1917.....	394,974.00	----	394,974.00
1918.....	395,098.00	----	395,098.00
1919.....	16,673.00	----	16,673.00
1920.....	25,464.00	----	25,464.00
*			
1931.....		260.00	260.00
1932.....	301.61	10,013.08	10,314.69
1933.....	52.75	21,568.65	21,621.40
1934.....	1,827.21	14,052.57	15,879.78
1935.....	----	30,601.83	30,601.83
1936.....	14,336.70	34,980.34	49,317.04
1937.....	9,612.70	34,340.65	43,953.35
1938.....	18,284.06	29,413.25	47,697.31
1939.....	25,546.30	31,189.70	56,736.00
1940.....	33,322.20	25,682.20	59,004.40
1941.....	36,103.00	19,614.00	55,717.00
1942.....	44,880.11	17,017.65	61,897.76
1943.....	19,547.44	28,410.86	47,958.30
1944.....	22,710.50	30,319.40	53,029.90
1945.....	37,541.30	21,639.90	59,181.20
1946.....	60,384.90	30,683.60	91,068.50
1947.....	46,028.80	28,207.80	74,236.60
1948.....	50,966.10	27,675.00	78,641.10
1949.....	56,076.00	27,270.00	83,346.00
1950.....	49,955.00	50,647.00	100,602.00
1951.....	30,318.00	84,442.00	114,760.00
1952.....	37,906.00	72,355.50	110,158.50
1953.....	37,172.50	89,476.50	126,649.00
1954.....	40,269.00	65,546.50	106,215.50
1955.....	38,992.00	85,071.00	124,063.00
1956.....	35,476.50	82,339.00	117,815.50
1957.....	32,810.75	61,396.50	94,207.25
1958.....	41,105.75	72,955.75	114,061.50
1959.....	42,289.65	47,309.45	89,599.10
1960.....	61,914.95	58,384.85	120,299.80
1961.....	71,952.70	57,303.30	129,256.00
1962.....	86,227.70	54,005.10	140,232.80
1963.....	57,517.00	63,514.80	121,031.80
1964.....	33,592.90	91,060.85	127,233.75
1965.....	33,464.10	101,664.90	135,129.00
1966.....	11,100.70	108,363.20	119,463.90
1967.....	9,331.00	122,164.00	131,495.00
1968.....	20,388.20	114,465.15	134,853.35
1969.....	10,028.70	121,210.50	131,239.20
1970.....	8,058.00	118,981.00	127,039.00
1971.....	19,476.00	136,083.00	155,559.00
1972.....	12,332.00	150,179.00	162,511.00
1973.....	24,539.00	128,541.00	153,080.00

* No data available 1921-1930.

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APPENDIX III
KELP HARVEST IN TONS