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Fish Bulletin 161. California Marine Fish Landings For 1972 and Designated Common Names of Certain Marine Organisms of California

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**STATE OF CALIFORNIA
THE RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF FISH AND GAME
FISH BULLETIN 161
California Marine Fish Landings For 1972
and Designated Common Names of Certain Marine Organisms of California**



By
Leo Pinkas
Marine Resources Region
and
By
Doyle E. Gates and Herbert W. Frey
>
Marine Resources Region
1974

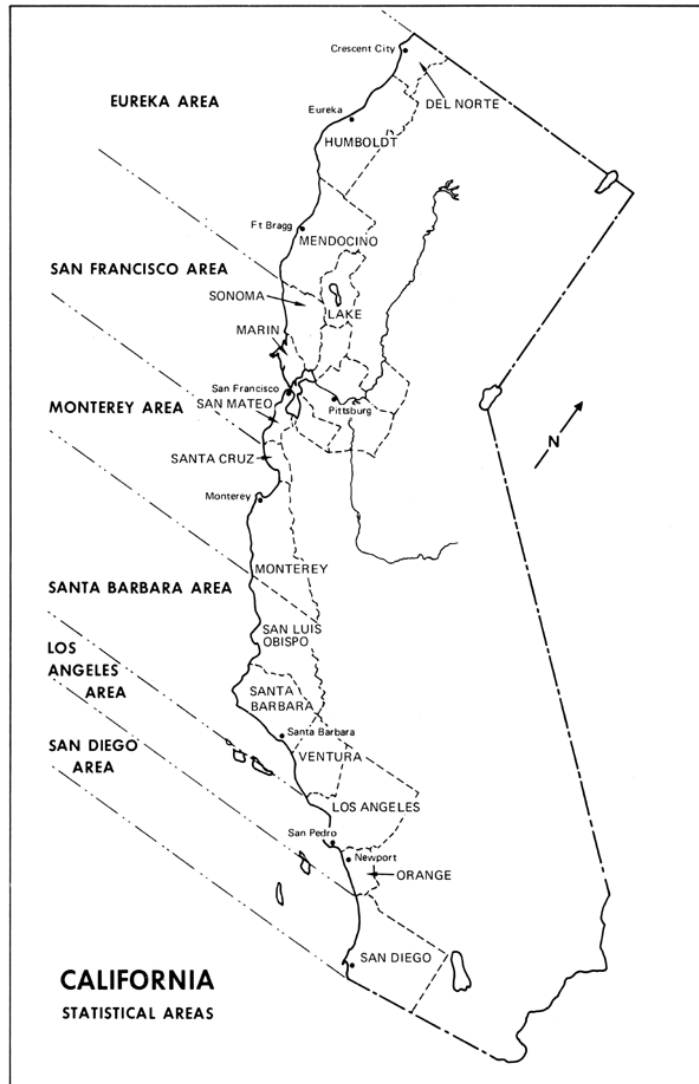


Figure 1. Geographical areas used to summarize California Fisheries statistics.

(2)

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

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1. CALIFORNIA MARINE FISH LANDINGS FOR 1972

LEO PINKAS

Marine Resources Region

1.1. INTRODUCTION

The protection, propagation, and wise utilization of California's living marine resources (established as common property by statute, Section 1600, Fish and Game Code) is dependent upon the welding of biological, environmental, economic, and sociological factors. Fundamental to each of these factors, as well as the entire management process, are harvest records. The California Department of Fish and Game began gathering commercial fisheries landing data in 1916. Commercial fish catches were first published in 1929 for the years 1926 and 1927. This report, the 32nd in the landing series, is for the calendar year 1972. It summarizes commercial fishing activities in marine as well as fresh waters and includes the catches of the sportfishing partyboat fleet.

Preliminary landing data are published annually in the circular series which also enumerates certain fishery products produced from the catch. The 1972 figures are contained in Circular No. 47, "Statistical Report of Fresh, Canned, Cured and Manufactured Fishery Products for 1972" (Bell, 1973).

California's fishery statistics are based on a system whereby fish dealers, processors, and operators of sportfishing partyboats send duplicate copies of their landing records to the Department. The system and methods used to collect commercial fishing records were fully described in Fish Bulletin 86, which reported the catch for 1950. In the intervening years, methods and equipment have been modified as conditions warranted, but the basic principles remain unchanged. Parke Young (1969) described the partyboat fishing log system in Fish Bulletin 145.

Statistical compilations are normally the result of the combined efforts of many people, this report is no exception. Credit for this publication truly belongs to the cooperating units of the fishing industry (fishermen, wholesale fish dealers, canners, and processors) and Department personnel responsible for the market receipt system which is designed to gather fishery landing data (namely, Fish and Game wardens, field office clerks, marine and anadromous fisheries biologists, and all members of the Marine Fisheries Statistical unit at Long Beach). My appreciation and thanks are extended to one and all.

Portions of the salmon statistics were collected under the Anadromous Fish Act Project: California A F C-12, Ocean Salmon Study and supported by the National Marine Fisheries Service, Department of Commerce, Washington, D.C.

1.2. EXPLANATION OF TABLES

Tables in this bulletin summarize statistics of various fishery operations in California during 1972. Five types of activity are being reported this year: landings of commercial fishermen in California; imports of tuna from other states or foreign countries destined for processing in California; sport catches of the partyboat fleet; landings of in-shore species used for bait; and catches of boats supplying live bait for sportfishing. In addition, the species composition of the 1972 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. Some facets of the sportfishing industry, other than the partyboat fleet are sampled by Department biologists but since these are specific studies the results are not reported here.

The landing bulletin series has, for over 20 years, been relatively stable in its format and presentations.

New fisheries (sea urchin), evolving fishery practices (aerial scouting for swordfish), and changing sociological needs (environmental impact statements) all create demands for additional and/or new statistical presentations. To satisfy these needs some table formats have been altered (Table 5, fishing boat lengths), new tables have been added (speciation and percent composition of the salmon catch), and additional detail has been included in existing tables (speciation of abalone landings, various tables).

Principal changes this year encompass nomenclature, new abalone conversion factors, commercial fish landings from inland waters separated from marine landings, and inclusion of landing data of marine plants.

1.3. SOURCE OF DATA

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

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

Operators of boats supplying live bait keep a voluntary daily log showing number of sets, species caught, area fished, and number of

scoops of bait sold. Copies of these logs are furnished the Department monthly. While these records represent most live bait landings, the reported catch should be regarded as minimal.

Clerical personnel at field offices in Eureka, Menlo Park, Long Beach, and San Diego maintain contact with fish dealers, 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 then is punched into cards and summarized with electric tabulating machines.

1.4. 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 were, for many years, incorporated with San Francisco totals and other general summary tables. This procedure resulted in the co-mingling of marine, fresh, and brackish water species in the reports. In a departure from this tradition the 1972 data are presented with all inland water fish landings removed from the usual tables and grouped into two separate tables, Appendix I and II. Should this format prove useful, these tabulations will be elevated to table status in future presentations.

1.5. SPECIES

The common and scientific names of species reported here have been revised to conform with the list prepared by 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 1972 animal food landings are as follows:

Species	Percent	Pounds
Pacific hake.....	41.2	152,462
Sablefish.....	32.9	121,747
English sole.....	10.2	37,745
Dover sole.....	6.6	24,424
Rockfish (8 species).....	5.6	20,723
Ten other species.....	3.5	12,952
	100.0	370,053

TABLE

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 1972 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. Speciation of skates and rays, on the market receipts was poor; the reported species consisted of skates, rays, stingrays and shovelnose guitarfish. Miscellaneous mollusks consisted of mussels, quahogs, sea snails, soft shell clams, and Washington clams.

Marine plant harvest data have not been routinely published by the Department. Frey (1971) presented a table of Giant Kelp, *Macrocystis spp.*, landings by open and leased beds dating back to 1916. Requests for kelp harvesting information are increasing: partially in response to the need to evaluate numerous proposed nearshore developments, and in response to the need to evaluate animal resources in relation to their total environment. An updated version of kelp landings is presented (Appendix III).

1.6. 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. From December 1970 through July 1971, over 4,866 individual abalone (of all species) were measured and weighed, and new conversion factors were calculated. These conversion factors, rounded off to whole numbers, were used to convert the 1972 abalone landings in this bulletin.

Factors used in 1972 were:

Abalone, red	45 pounds per dozen
Abalone, pink	25 pounds per dozen
Abalone, green	25 pounds per dozen
Abalone, black	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 pounds per scoop

1.7. 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.

1.8. INSHORE BAIT

The inshore bait fishery takes several kinds of fish and invertebrates from bays, rivers, and intertidal regions. Records of this fishery have been published as a separate summary in landing bulletins since 1963. Conversion factors used for inshore bait for 1972 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	0.082 pound per dozen

1.9. REFERENCES

- Bell, Robert R. 1973. Statistical report of fresh, canned, cured and manufactured fishery products for 1972. Calif. Dept. Fish and Game, Circular, (47) : 1-19.
- Frey, Herbert W. (Ed) 1971. California's living marine resources and their utilization. Calif. Dept. Fish and Game, Sacramento, 148 p.
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- Jensen, Paul T., and Phillip G. Swartzell. 1967. California salmon landings 1952 through 1965. Calif. Dept. Fish and Game, Fish Bull., (135) : 43-57.
- Young, Parke H. 1969. The California partyboat fishery 1947-1967. Calif. Dept. Fish and Game, Fish Bull., (145) : 91 p.

TABLE 1
Common and Scientific Names of Fishes, Crustaceans, and Mollusks in the 1972 Catch

Common name	Scientific name	Common name	Scientific name
FISHES			
Anchovy, northern	<i>Engraulis mordax</i>	Salmon	
Barracuda, California	<i>Sphyraena argentea</i>	King	<i>Oncorhynchus tshawytscha</i>
Bass, rock		Pink	<i>Oncorhynchus gorbuscha</i>
Kelp bass	<i>Paralabrax clathratus</i>	Silver	<i>Oncorhynchus kisutch</i>
Sand bass, barred	<i>Paralabrax nebulifer</i>	Sanddab	<i>Citharichthys sordidus</i>
Spotted sand bass	<i>Paralabrax maculatofasciatus</i>	Sardine, Pacific	<i>Sardinops sagax caeruleus</i>
Blacksmith	<i>Chromis punctipinnis</i>	Sargo	<i>Anisotremus davidsonii</i>
Bonito, Pacific	<i>Sarda chilensis</i>	Sculpin	<i>Scorpaena putata</i>
Cabezon	<i>Scorpaenichthys marmoratus</i>	Sculpin, Pacific staghorn	<i>Leptocottus armatus</i>
Cabrilla, spotted	<i>Epinephelus analogus</i>	Sea bass, giant	<i>Stereolepis gigas</i>
Croaker		Seabass, white	<i>Cynoscion nobilis</i>
White	<i>Gonyonemus lineatus</i>	Shark	
Queenfish	<i>Seriophilus politus</i>	Members of family Alopiidae, Carcharhinidae, Lamnidae, and Squalidae	
Dolphinfish	<i>Coryphaena hippurus</i>	Sheephead, California	<i>Pimelometopon pulchrum</i>
Eel, wolf	<i>Anarrhichthys coelatus</i>	Skates and Rays	
Flounder		Members of family Rhinobatidae, Rajidae, and Myliobatidae	
Arrowtooth	<i>Atheresthes stomias</i>	Smelt	
Starry	<i>Platichthys stellatus</i>	Jacksmelt	<i>Atherinopsis californiensis</i>
Flyingfish	<i>Cypselurus</i> spp.	Night	<i>Spirinchus starkii</i>
Freshwater fish		Surf	<i>Hypomesus pretiosus</i>
Carp	<i>Cyprinus carpio</i>	Whitebait	<i>Alosmerus elongatus</i> and <i>Spirinchus starkii</i>
Sacramento blackfish	<i>Orthodon microlepidotus</i>	Sole	
Greenling, kelp	<i>Hexagrammos decagrammus</i>	Butter	<i>Isopsetta isolepis</i>
Grenadiers		Dover	<i>Microstomus pacificus</i>
California	<i>Nezumia stegidolepis</i>	English	<i>Parophrys vetulus</i>
Pacific	<i>Coryphaenoides acrolepis</i>	Petrale	<i>Ecopsetta jordani</i>
Hake, Pacific	<i>Merluccius productus</i>	Rex	<i>Glyptocephalus zachirus</i>
Halfmoon	<i>Mediatuna californiensis</i>	Rock	<i>Lepidopsetta bilineata</i>
Hailbut		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 pallasii</i>	Albacore	<i>Thunnus alalunga</i>
Killifish, California	<i>Fundulus parvipinnis</i>	Bigeye	<i>Thunnus obesus</i>
Lamprey	<i>Lampetra</i> spp.	Bluefin	<i>Thunnus thynnus</i>
Lingcod	<i>Ophiodon elongatus</i>	Skipjack, tuna	<i>Euthynnus pelamis</i>
Mackerel		Skipjack, black	<i>Euthynnus lineatus</i>
Jack	<i>Trachurus symmetricus</i>	Yellowfin	<i>Thunnus albacares</i>
Pacific	<i>Scomber japonicus</i>	Turbot	
Moray, California	<i>Gymnothorax mordax</i>	Curlfin	<i>Pleuronichthys decurrens</i>
Mudsnucker, longjaw	<i>Gillichthys mirabilis</i>	Diamond	<i>Hypopsetta guttulata</i>
Mullet, striped	<i>Mugil cephalus</i>	Hornyhead	<i>Pleuronichthys verticalis</i>
Opaleye	<i>Girella nigricans</i>	Wahoo	<i>Acanthocybium solanderi</i>
Perch, ocean	Members of family Embiotocidae	Whitefish, ocean	<i>Coreoladotus princeps</i>
Pompano (Butterfish, Pacific)	<i>Peprilus simillimus</i>	Yellowtail	<i>Seriola dorsalis</i>
Rockfish	Members of family Scorpaenidae		
Sablefish	<i>Anoplopoma fimbria</i>		
		AMPHIBIA	
Bullfrog	<i>Rana catesbeiana</i>		
CRUSTACEANS			
Crab		Prawn	
Dungeness	<i>Cancer magister</i>	Ridgeback	<i>Eusicyonia ingentus</i>
Rock	<i>Cancer</i> spp.	Spot	<i>Pandalus platyceros</i>
Sand	<i>Emerita analoga</i>	Shrimp	
Shore	<i>Hemigrapsus</i> spp.	Bay	<i>Crago</i> spp.
Sheep	<i>Loxorhynchus</i> spp.	Ghost, Bay	<i>Callinassa californiensis</i>
Crayfish	<i>Astacus troybridgei</i>	Ocean, Pacific	<i>Pandalus jordani</i>
Lobster, spiny	<i>Panulirus interruptus</i>	Red	<i>Hippolytina californica</i>
		ECHINODERMS	
Starfish, common	<i>Pisaster</i> spp.	Sea urchin	<i>Strongylocentrotus</i> spp.
MOLLUSKS			
Abalone		Softshell	<i>Mya arenaria</i>
Black	<i>Haliotis cracherodii</i>	Washington, common	<i>Saxidomus nuttalli</i>
Green	<i>Haliotis fulgens</i>	Mussel	
Pink	<i>Haliotis corrugata</i>	Bay	<i>Mytilus edulis</i>
Red	<i>Haliotis rufescens</i>	Rock	<i>Mytilus californianus</i>
Threaded	<i>Haliotis assimilis</i>	Octopi	<i>Pelypys</i> spp.
White	<i>Haliotis sorenseni</i>	Oyster	
Clam		Eastern	<i>Crassostrea virginica</i>
Freshwater	<i>Corbicula fluminea</i>	Giant Pacific	<i>Crassostrea gigas</i>
Jackknife, California	<i>Tagelus californianus</i>	Snail, sea	<i>Liparis atlanticus</i>
Littleneck	<i>Protothaca staminea</i>	Squid, market	<i>Loligo opaleceus</i>
Purple	<i>Sanquaticularia nuttalli</i>		
Quahog, Northern	<i>Mercenaria mercenaria</i>		

TABLE 1
Common and Scientific Names of Fishes, Crustaceans, and Mollusks in the 1972 Catch

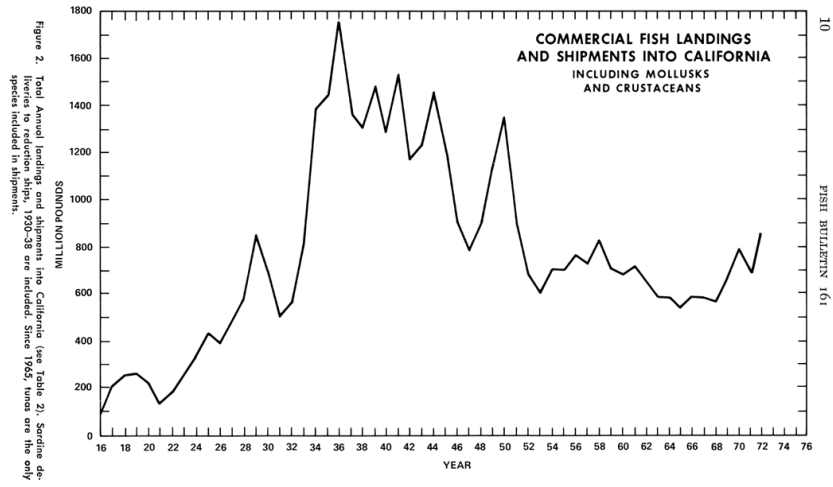


Figure 2. Total Annual landings and shipments into California (see Table 2). Sardine deliveries to reduction ships, 1930–38 are included. Since 1965, tunas are the only species included in shipments.

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

Year	Thousands of pounds	Year	Thousands of pounds
1916.....	95,003	1946.....	919,822
1917.....	209,877	1947.....	793,499
1918.....	261,131	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.....	437,802	1955.....	710,713
1926.....	394,964	1956.....	772,551
1927.....	487,166	1957.....	738,550
1928.....	683,327	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.....	599,899
1934.....	1,300,708	1964.....	591,131
1935.....	1,448,017	*1965.....	514,480
1936.....	1,764,000	1966.....	591,533
1937.....	1,362,984	1967.....	589,028
1938.....	1,310,596	1968.....	567,214
1939.....	1,486,535	1969.....	672,733
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		
1944.....	1,459,456		
1945.....	1,216,501		

* Beginning in 1965 only tuna shipments are recorded.

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

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

1971				1972			
Species	Rank	Thousands of pounds	Thousands of dollars	Species	Rank	Thousands of pounds	Thousands of dollars
Yellowfin tuna.....	1	168,365	\$36,211	Yellowfin tuna.....	1	278,487	\$65,377
Skipjack tuna.....	2	154,942	30,570	Anchovy, northern.....	2	138,202	1,678
Anchovy, northern.....	3	89,705	1,093	Skipjack tuna.....	3	123,768	28,851
Albacore tuna.....	4	68,131	22,675	Albacore tuna.....	4	97,132	38,882
Jack mackerel.....	5	59,883	2,416	Jack mackerel.....	5	51,118	2,133
Squid.....	6	31,517	760	Bluefin tuna.....	6	30,974	7,033
Pacific bonito.....	7	20,269	1,841	Pacific bonito.....	7	22,313	2,055
Bluefin tuna.....	8	19,828	4,207	Dover sole.....	8	22,082	1,508
Dover sole.....	9	14,249	1,178	Squid.....	9	20,159	534
Rockfish.....	10	11,169	942	Rockfish.....	10	16,421	1,490
Dungeness crab.....	11	9,662	2,821	Sablefish.....	11	8,396	649
Salmon.....	12	8,117	4,757	Salmon.....	12	6,423	4,830
Sablefish.....	13	4,424	290	Petrale sole.....	13	3,575	399
Petrale sole.....	14	3,704	611	Lingcod.....	14	3,246	339
Ocean shrimp.....	15	3,081	400	Abalone.....	15	3,093	1,248
English sole.....	16	2,964	316	English sole.....	16	3,002	342
Abalone.....	17	2,945	953	Ocean shrimp.....	17	2,490	374
Lingcod.....	18	2,098	201	Rex sole.....	18	1,662	201
Bigeye tuna.....	19	1,571	394	Dungeness crab.....	19	1,563	899
Rex sole.....	20	1,468	169	Black skipjack.....	20	1,543	123
All others.....		9,603	2,658	All others.....		10,050	3,064
Totals.....		687,995	\$115,463	Totals.....		845,699	\$162,519

* 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*	
	1971-72	1972-73
Eureka.....	1,846	1,870
Sacramento.....	455	488
San Francisco.....	1,711	2,035
Monterey.....	686	800
Santa Barbara.....	871	941
Los Angeles.....	2,028	2,070
San Diego.....	1,652	1,688
Alaska, Washington and Oregon fishermen licensed in California.....	848	524
Mexican nationals licensed in California.....	26	39
Other.....	58	58
Totals.....	10,181	10,513

* 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*	
	1971-72	1972-73		1971-72	1972-73
0- 10.....	5	3	101-105.....	8	8
11- 15.....	128	128	106-110.....	7	6
16- 20.....	807	954	111-115.....	5	4
21- 25.....	553	679	116-120.....	11	8
26- 30.....	645	707	121-125.....	6	5
31- 35.....	600	628	126-130.....	9	7
36- 40.....	787	820	131-135.....	8	6
41- 45.....	446	429	136-140.....	11	9
46- 50.....	349	311	141-145.....	1	1
51- 55.....	147	136	146-150.....	0	0
56- 60.....	124	113	151-155.....	17	16
61- 65.....	120	110	156-160.....	4	3
66- 70.....	34	35	161-165.....	4	3
71- 75.....	37	32	166-170.....	5	4
76- 80.....	28	29	171-175.....	4	4
81- 85.....	21	19	176-180.....	0	0
86- 90.....	8	10	181 and over.....	9	19
91- 95.....	7	8			
96-100.....	7	7	Total.....	4,962†	5,261‡

* April 1 to March 31.

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

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

TABLE 5
Number of Registered Fishing Boats by Length

TABLE 6
Origin of Shipments Received for Processing in California During 1972 *

Shipped from: Species	Pounds shipped to each area		Total pounds
	Los Angeles	San Diego	
Continental United States:			
Tuna, bluefin.....	576,088	---	576,088
Tuna, skipjack.....	37,500	---	37,500
Oregon, Washington, Canada and Alaska:			
Tuna, albacore.....	16,735,782	1,403,092	18,138,874
Tuna, yellowfin.....	449,320	---	449,320
Mexico and Central America:			
Tuna, albacore.....	82,033	---	82,033
Tuna, bluefin.....	543,120	51,404	594,524
Tuna, skipjack.....	1,512,323	365,776	1,878,099
Tuna, skipjack, black.....	420,279	---	420,279
Tuna, yellowfin.....	4,862,812	1,973,117	6,835,929
South America:			
Tuna, albacore.....	2,708,013	---	2,708,013
Tuna, bigeye.....	8,495	---	8,495
Tuna, skipjack.....	1,610,108	---	1,610,108
Tuna, yellowfin.....	1,875,376	---	1,875,376
Japan:			
Tuna, albacore.....	35,598,299	3,281,417	38,879,716
Tuna, bigeye.....	100,645	7,991	108,636
Tuna, bluefin.....	89,160	---	89,160
Tuna, skipjack.....	65,387,247	7,609,352	72,996,599
Tuna, skipjack, black.....	2,860	---	2,860
Tuna, yellowfin.....	7,925,216	1,704,405	9,629,621
Australia and New Zealand:			
Tuna, albacore.....	436,508	---	436,508
Tuna, bluefin.....	4,836,935	---	4,836,935
Tuna, skipjack.....	255,870	---	255,870
China (Formosa):			
Tuna, albacore.....	313,790	8,060	321,850
Tuna, skipjack.....	614,352	21,666	636,018
Tuna, yellowfin.....	5,386,433	303,074	5,689,507
Malaya:			
Tuna, albacore.....	322,392	---	322,392
Tuna, skipjack.....	224,105	---	224,105
Tuna, yellowfin.....	1,804,205	---	1,804,205
South Pacific Islands:			
Tuna, albacore.....	9,939,401	588,729	10,528,130
Tuna, skipjack.....	48,756	---	48,756
Tuna, yellowfin.....	5,345,167	1,727,552	7,072,719
Africa:			
Tuna, albacore.....	4,712,891	---	4,712,891
Tuna, bigeye.....	1,978	---	1,978
Tuna, skipjack.....	9,118,931	---	9,118,931
Tuna, skipjack, black.....	---	11,265	11,265
Tuna, yellowfin.....	1,001,361	---	1,001,361
Philippines:			
Tuna, bigeye.....	72,102	---	72,102
Tuna, skipjack.....	218,610	---	218,610
Tuna, yellowfin.....	2,423,529	---	2,423,529
Spain:			
Tuna, skipjack.....	798,958	---	798,958
Total pounds.....	188,401,040	19,056,900	207,457,940

* Beginning in 1965 only tuna shipments are recorded.

TABLE 6
Origin of Shipments Received for Processing in California During 1972

TABLE 7
Origin of Commercial Fish Landings and Volume of Shipments Into California During 1972

Species	Landings of catches from				Total pounds	Tuna shipments*	Grand total
	California waters	Waters north of State	Waters south of State	Central Pacific waters			
Fish:							
Aschevy, northern.....	138,201,822	.....	51	.....	138,201,873	.....	138,201,873
Barracuda, California.....	13,915	.....	.....	.....	13,915	.....	13,915
Blacksmith.....	73,980	.....	.....	.....	73,980	.....	73,980
Bonito, Pacific.....	15,600,361	.....	6,712,266	.....	22,312,627	.....	22,312,627
Cabezon.....	8,583	.....	.....	.....	8,583	.....	8,583
Craker, white.....	372,410	.....	.....	.....	372,410	.....	372,410
Dolphinfish.....	1,567	.....	6,317	.....	7,784	.....	7,784
Flounder.....	657,070	2,640	.....	.....	659,710	.....	659,710
Flounder, arrowtooth.....	187,226	10,721	.....	.....	197,947	.....	197,947
Flyingfish.....	128,880	.....	.....	.....	128,880	.....	128,880
Grenadiere.....	56,647	7,376	.....	.....	64,023	.....	64,023
Hake, Pacific.....	10,525	.....	.....	.....	10,525	.....	10,525
Hallibout.....	27,122	.....	.....	.....	27,122	.....	27,122
Halibut, California.....	309,245	.....	.....	.....	309,245	.....	309,245
Halibut, Pacific.....	235	.....	.....	.....	235	.....	235
Herring, Pacific.....	125,448	.....	.....	.....	125,448	.....	125,448
Lingcod.....	3,246,186	.....	.....	.....	3,246,186	.....	3,246,186
Mackerel, jack.....	51,117,523	116,731	683	.....	51,118,937	.....	51,118,937
Mackerel, Pacific.....	108,035	.....	43	.....	108,078	.....	108,078
Mudsnore, longjaw.....	1,289	.....	.....	.....	1,289	.....	1,289
Opah.....	15,300	.....	.....	.....	15,300	.....	15,300
Perch.....	272,913	.....	443	.....	273,356	.....	273,356
Pompano, Pacific.....	154,932	.....	90	.....	155,022	.....	155,022
Queenfish.....	46,473	.....	.....	.....	46,473	.....	46,473
Rockfish.....	15,985,230	510,845	42,174	.....	16,428,249	.....	16,428,249
Salmon.....	7,983,299	412,415	.....	.....	8,395,714	.....	8,395,714
Sardine.....	6,422,371	1,118	.....	.....	6,423,489	.....	6,423,489
Sandlabb.....	916,680	4,142	.....	.....	920,822	.....	920,822
Sardine, Pacific.....	372,220	.....	.....	.....	372,220	.....	372,220
Sargo.....	637	.....	229	.....	866	.....	866
Sculpin.....	61,896	.....	70,120	.....	132,016	.....	132,016
Sea bass, giant.....	12,329	.....	82,994	.....	95,323	.....	95,323
Seabass, white.....	550,861	.....	238,497	.....	789,358	.....	789,358
Shark.....	364,082	31	36,075	400,188	400,188
Sheepshead, California.....	6,919	165	7,084	7,084

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TABLE 7
Origin of Commercial Fish Landings and Volume of Shipments Into California During 1972

Skate.....	118,386	----	----	----	118,386	----	118,386
Smelt.....	514,298	----	----	----	514,298	----	514,298
Snell, whitebait.....	190,538	----	----	----	190,538	----	190,538
Sole, Dover.....	19,094,384	3,027,313	----	----	22,081,607	----	22,081,607
Sole, English.....	2,915,850	86,132	----	----	3,001,982	----	3,001,982
Sole, petrale.....	3,493,522	81,723	----	----	3,575,245	----	3,575,245
Sole, rex.....	1,569,399	92,241	----	----	1,661,640	----	1,661,640
Sole, sand.....	394,097	5,055	----	----	399,152	----	399,152
Sole, miscellaneous.....	29,659	370	18	----	30,027	----	30,027
Swordfish.....	261,624	----	4,358	----	265,982	----	265,982
Tuna, albacore.....	17,573,831	1,105,210	2,313,999	8,174	21,001,214	76,130,497	97,131,711
Tuna, bigeye.....	----	----	191,476	----	191,476	191,211	382,687
Tuna, bluefin.....	1,525,962	----	23,331,739	----	24,857,721	6,096,707	30,974,428
Tuna, skipjack.....	41,418	----	35,953,466	----	36,044,884	87,325,454	123,738,338
Tuna, skipjack, black.....	27,000	----	1,082,110	----	1,109,110	431,404	1,543,514
Tuna, yellowfin.....	71,522	----	241,533,460	----	241,704,982	30,781,567	278,486,549
Turbot.....	17,463	660	----	----	18,123	----	18,123
Wahoo.....	----	----	1,807	----	1,807	----	1,807
Whitefish, ocean.....	1,480	----	1,100	----	2,580	----	2,580
Yellowtail.....	95,102	----	162,989	----	258,071	----	258,071
Miscellaneous.....	1,147	----	26	----	1,173	----	1,173
Miscellaneous (animal food).....	370,053	----	----	----	370,053	----	370,053
Crustacean:							
Crab, Dungeness.....	1,563,006	----	----	----	1,563,006	----	1,563,006
Crab, rock.....	843,953	----	27	----	843,980	----	843,980
Lobster, spiny.....	398,217	----	----	----	398,217	----	398,217
Trawl, spot.....	20,970	----	----	----	20,970	----	20,970
Shrimp, ocean.....	2,443,027	46,843	----	----	2,489,870	----	2,489,870
Echinoderm:							
Sea urchin.....	76,457	----	----	----	76,457	----	76,457
Miscellaneous echinoderm.....	1,290	----	----	----	1,290	----	1,290
Mollusk:							
Abalone, black.....	1,014,892	----	----	----	1,014,892	----	1,014,892
Abalone, grey.....	403,709	----	----	----	403,709	----	403,709
Abalone, pink.....	403,709	----	----	----	403,709	----	403,709
Abalone, red.....	1,104,462	----	----	----	1,104,462	----	1,104,462
Abalone, threaded.....	1,868	----	----	----	1,868	----	1,868
Abalone, white.....	143,819	----	----	----	143,819	----	143,819
Octopus.....	10,323	299	----	----	10,622	----	10,622
Oyster, eastern.....	9,028	----	----	----	9,028	----	9,028
Oyster, giant Pacific.....	876,127	----	----	----	876,127	----	876,127
Squid.....	20,159,212	----	----	----	20,159,212	----	20,159,212
Miscellaneous mollusk.....	582	----	----	----	582	----	582
Total pounds.....	320,889,756	5,517,631	311,825,454	8,174	638,241,215	207,457,940	845,699,155

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

MARINE LANDINGS 1972

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TABLE 7—Cont'd.

TABLE 8
Monthly Landings and Shipments Into California During 1972

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS:													
Fish:													
Anchovy, northern.....	25,337,993	20,029,208	5,758,467	7,840,988	6,746,236	887,807	729,017	2,115,868	4,001,562	25,560,784	25,934,015	13,229,628	138,201,573
Barracuda, California.....	41	31	3,797	1,051	1,871	1,300	730	177	3,877	869	644	177	15,915
Blacksmith.....	552,087	257,518	1,721	351,343	29,440	46,440	342,145	2,252,809	7,118,096	5,500,760	2,062,290	1,451,971	22,312,627
Bonito, Pacific.....	750	8	268	670	395	---	92	214	428	426	---	---	5,363
Caker.....	75,539	37,512	37,522	67,360	40,845	21,529	13,143	20,505	7,514	12,817	14,481	21,613	373,410
Croaker, white.....	1,964	2,372	---	1,804	85	---	---	69	288	258	244	---	7,784
Dolphinfish.....	21,798	45,983	85,546	21,724	28,642	14,715	31,311	20,227	132,218	116,335	79,351	51,730	657,713
Flounder.....	4,941	1,467	9,131	9,163	16,047	3,980	8,934	26,123	20,021	27,837	13,568	14,793	163,947
Flounder, arrowtooth.....	---	---	---	---	21,543	40,988	51,462	12,795	---	---	---	---	128,880
Flatfish.....	---	---	---	---	---	---	---	---	---	---	---	---	---
Oreводners.....	---	---	50	4,190	2,360	150	210	39,600	7,230	8,304	4,239	438	64,023
Hake, Pacific.....	---	---	---	---	---	---	---	---	---	---	---	---	10,529
Hallibut.....	1,085	714	1,269	3,831	3,919	9,922	1,149	2,126	980	1,867	1,835	1,077	27,122
Hallibut, California.....	15,916	56,026	15,496	9,143	19,231	30,972	47,886	49,310	17,810	19,463	16,040	6,094	300,245
Hallibut, Pacific.....	---	---	---	---	---	---	---	---	---	---	---	---	235
Herring, Pacific.....	12,000	9,700	---	12,900	81,322	8,900	---	213	---	---	165	108	125,448
Lincod.....	69,123	89,462	123,061	150,014	337,288	429,171	507,733	538,549	427,436	309,177	111,791	138,168	3,245,186
Maskered jack.....	5,692,755	3,530,389	4,805,018	651,165	542,659	1,724,182	7,000,259	9,918,802	13,429,289	648,127	2,182,566	993,423	51,117,573
Maskered, Pacific.....	2,390	27,496	6,670	11,565	1,254	927	200	140	448	16,222	32,134	5,572	196,978
Muducker, longjaw.....	71	45	85	122	175	72	135	150	105	160	90	---	1,289
Opaleye.....	121	---	187	285	2,495	3,649	2,200	3,230	715	900	510	1,948	15,300
Perch.....	10,984	11,817	27,849	27,801	11,817	110,165	11,928	26,788	19,068	8,306	3,830	7,939	272,913
Pompano, Pacific.....	8,560	4,738	9,049	19,652	6,668	2,197	735	1,811	2,252	4,166	3,929	18,884	159,952
Queenfish.....	3,300	10,000	17,970	4,200	3,500	---	253	---	250	3,000	---	---	46,473
Rockfish.....	930,022	1,361,640	1,491,151	1,044,917	1,265,067	1,360,094	1,288,646	1,445,419	1,207,810	1,848,431	1,608,772	1,562,343	16,421,252
Sablefish.....	809,940	1,036,248	743,883	400,796	564,411	823,803	638,581	663,765	684,001	1,002,457	628,474	653,199	8,308,714
Salmon.....	---	---	---	3,944	1,811,359	1,992,958	1,845,556	841,603	218,166	876	---	---	6,427,289
Sardine.....	56,264	81,716	79,886	82,297	73,196	115,539	123,211	145,967	82,271	62,998	21,479	21,055	929,822
Sardine, Pacific.....	---	---	6,795	9,385	10,681	43,935	134,791	9,430	35,808	18,859	32,306	52,483	372,230
Sargo.....	---	---	100	229	---	297	220	110	---	---	---	---	896
Sea bream.....	1,424	1,720	730	2,192	2,817	41,001	33,305	28,561	3,297	4,668	6,366	5,990	135,016
Sea bass, giant.....	1,293	25,865	9,205	2,175	2,302	2,947	4,091	755	18,830	22,083	1,265	---	95,313
Sea bass, white.....	58,648	96,784	88,692	29,920	25,723	26,096	19,767	191,132	95,723	51,450	38,218	53,236	777,388
Shark.....	30,021	23,123	10,454	10,362	23,343	37,656	44,759	43,663	39,856	51,840	45,752	33,031	493,769
Shepherd, California.....	1,136	1,038	461	483	686	1,900	110	29	188	663	89	301	7,084
Skate.....	4,184	14,234	11,115	17,809	22,384	9,225	10,781	13,767	8,395	3,310	2,520	5,662	118,386
Smelt.....	44,731	2,016	4,676	9,153	23,166	44,675	145,393	167,553	25,393	30,161	6,940	9,941	514,298
Smelt, whitebelly.....	624	3,114	16,916	19,827	46,898	51,713	42,215	8,728	323	---	---	---	189,358
Sole, Dover.....	575,534	1,639,694	1,768,480	1,629,690	2,834,122	2,384,441	2,622,923	2,691,776	2,801,117	2,048,715	1,029,642	874,051	22,691,697
Sole, English.....	268,721	313,693	237,105	158,087	214,617	195,874	218,784	375,873	410,987	312,483	141,669	164,970	3,001,965

TABLE 8
Monthly Landings and Shipments Into California During 1972

Sole, petalo.....	711,555	325,241	323,863	275,463	368,044	245,170	215,739	207,739	274,032	288,127	137,656	185,262	3,575,543
Sole, rex.....	169,960	185,923	163,698	128,533	190,234	116,392	122,719	116,971	128,162	111,282	58,963	92,170	1,601,010
Sole, sand.....	26,253	35,588	52,713	8,857	54,684	19,907	21,687	23,122	55,607	57,200	22,298	11,424	386,132
Sole, miscellaneous.....	2,484	7,299	6,261	867	1,833	573	1,360	2,712	270	714	469	6,273	20,037
Swordfish.....	.....	120	2,256	3,162	2,857	52,331	104,018	69,232	31,602	.....	164	240	265,982
Tuna, albacore.....	.....	1,970	.....	.....	15	51,307	4,475,119	3,667,340	6,372,491	5,767,900	662,723	3,249	21,001,214
Tuna, bigeye.....	.....	193,515	.....	.....	29,010	.....	.....	.....	.....	4,531	.....	.....	191,476
Tuna, bluefin.....	168,603	7,429	.....	.....	3,722,760	2,442,663	8,877,203	4,865,403	4,473,888	990,383	.....	.....	24,877,721
Tuna, skipjack, black.....	1,698,199	2,871,898	2,286,267	5,820,755	4,224,860	6,580,795	3,372,672	696,494	438,298	2,123,698	6,004,767	33,044,884	.....
Tuna, skipjack, black.....	.....	.....	.....	.....	426,722	7,630	.....	.....	.....	27,000	.....	.....	1,109,110
Tuna, yellowfin.....	3,573,131	29,491,401	32,941,205	39,003,659	37,490,662	25,165,560	19,569,892	14,059,039	11,610,450	17,043,613	8,976,222	2,780,109	241,701,882
Urbot.....	342	5,913	3,507	311	125	2,792	704	2,090	2,188	907	620	604	18,123
Wahoo.....	.....	22	662	476	.....	350	.....	.....	171	246	.....	.....	1,987
Whitefish, ocean.....	70	278	172	240	.....	288	485	188	.....	220	80	468	2,669
Yellowtail.....	7,102	24,720	11,100	5,101	6,875	12,983	4,220	1,933	40,222	23,988	55,850	63,759	28,071
Miscellaneous.....	185	25	25	170	28	214	16	361	82	81	.....	.....	1,173
Miscellaneous (animal food).....	38,525	62,160	20,820	20,140	50,315	20,925	36,380	20,980	15,975	34,650	20,150	21,253	370,033
Crustacean:													
Crab, Dungeness.....	289,653	138,388	105,108	47,267	107,223	72,038	21,548	23,060	.....	.....	.....	182,476	1,563,906
Crab, rock.....	42,901	78,719	63,829	60,435	52,323	64,378	83,191	85,943	70,949	91,113	60,416	20,723	843,230
Lobster, spiny.....	45,460	20,869	21,801	.....	.....	.....	.....	.....	.....	116,411	99,894	33,722	308,217
Prawn, spot.....	2,143	1,936	1,838	.....	.....	.....	.....	.....	4,298	5,449	.....	5,206	20,670
Shrimp, ocean.....	.....	.....	90,675	320,561	296,846	531,547	627,880	307,987	.....	384,274	.....	.....	2,489,570
Echinoderm:													
Sea urchin.....	1,728	4,868	.....	4,700	43,242	.....	.....	.....	.....	.....	382	1,881	19,656
Miscellaneous echinoderm.....	.....	376	.....	228	217	.....	.....	.....	.....	.....	.....	.....	1,260
Mollusk:													
Abalone, black.....	13,934	1,325	16,049	109,473	179,820	346,216	69,171	787	64,695	21,341	26,566	165,515	1,014,262
Abalone, green.....	74,935	375	17,243	22,262	71,731	31,277	31,885	889	38,994	21,620	24,413	42,263	424,528
Abalone, pink.....	24,233	162	54,987	20,215	22,570	31,423	1,037	42,279	38,888	31,726	26,727	603,709	.....
Abalone, red.....	137,573	5,560	100,159	108,409	90,888	67,284	121,649	1,698	136,905	142,260	73,988	118,421	1,104,462
Abalone, threaded.....	8	.....	54	46	4	.....	.....	.....	.....	.....	.....	.....	1,588
Abalone, white.....	25,470	.....	10,883	9,832	7,129	7,228	8,560	991	7,731	23,691	27,156	14,618	143,819
Octopus.....	245	609	749	362	563	317	788	1,274	1,432	2,231	633	1,329	10,682
Oyster, eastern.....	1,065	1,180	463	1,135	826	1,150	559	325	1,244	864	110	88	5,076
Oyster, giant Pacific.....	65,610	82,827	97,196	71,963	72,659	57,437	58,109	14,281	75,945	85,527	82,841	72,181	87,823,254
Squid.....	123,750	1,996,785	914,712	2,208,774	4,359,915	7,907,660	1,896,876	692,225	107,125	61,450	92,760	207,480	20,189,212
Miscellaneous mollusk.....	120	145	250	20	20	.....	.....	.....	.....	.....	.....	.....	382
Total pounds.....	40,274,971	63,004,461	62,851,263	67,185,573	65,305,658	54,067,841	32,221,200	53,287,105	55,336,545	66,968,428	47,770,997	20,980,673	638,241,215
SHIPMENTS:													
Fin:													
Tuna, albacore.....	2,331,589	1,255,169	5,341,488	4,110,566	3,372,750	2,830,942	15,042,416	18,266,211	7,647,392	4,243,408	8,024,432	3,455,114	76,130,497
Tuna, bigeye.....	8,495	.....	1,978	.....	7,991	.....	62,232	4,924	4,926	23,620	.....	.....	77,025
Tuna, bluefin.....	6,937,620	3,130,792	13,453,244	9,757,889	10,014,379	7,171,733	6,179,135	9,012,208	4,877,224	7,355,653	4,084,887	5,877,770	87,823,254
Tuna, skipjack, black.....	2,351,618	1,008,212	4,150,161	3,865,669	4,891,249	2,790,202	3,391,841	1,816,216	3,719,371	1,988,212	2,637,223	4,155,203	36,781,267
Tuna, yellowfin.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total pounds.....	11,829,222	5,394,173	22,946,871	21,887,263	18,418,709	12,984,389	25,262,681	30,000,674	16,601,650	13,777,239	14,778,292	13,576,677	207,457,840
Grand total.....	52,104,193	68,398,634	75,798,434	79,072,836	83,724,367	67,062,230	77,484,181	83,287,779	71,938,195	80,745,667	62,649,289	43,963,350	945,699,155

* For origin of shipments refer to Table 6. Beginning in 1955 only tuna shipments are recorded.

TABLE 8—Cont'd.

TABLE 9
Monthly Landings of Commercial Fishing Boats in the Eureka Area During 1972

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Bonito, Pacific.....				255	122					514		106	650
Cabezon.....				280	147		28						475
Flounder.....	2,409	3,494	23,774	11,597	23,092	10,128	6,822	12,378	29,535	58,202	61,317	43,613	286,551
Flounder, arrowtooth.....	2,066	1,467	8,576	9,165	13,220	5,980	8,084	28,123	29,021	22,468	12,748	2,238	139,396
Grenadier.....							4,132	39,680	1,914	7,844	3,057		56,647
Halibut, California.....							40						40
Halibut, Pacific.....					28	86	12	87					213
Lingcod.....	26,009	27,712	50,143	75,445	158,916	304,548	399,123	399,016	331,666	150,531	26,671	23,842	1,948,622
Mackerel, jack.....								385	1,822	835			2,742
Perch.....	3,751	3,355	11,587	10,551	75	22	7,554	17,336	9,346	2,784	218		69,084
Rockfish.....	388,595	507,842	594,162	301,720	459,709	490,146	646,322	656,408	496,032	619,136	576,652	291,504	6,056,328
Salblefish.....	488,767	504,262	391,838	253,558	406,807	376,199	488,103	510,630	441,780	514,089	222,961	303,133	4,991,227
Salmon.....				114	972,342	1,029,951	1,098,351	236,481	39,587	12			3,368,658
Sanddab.....	32,220	50,719	41,753	18,053	48,162	61,770	79,719	87,667	55,039	30,140	10,381	5,348	520,971
Shark.....	850	612	451	476	1,540	483	141	95	181	5,958	3,265		16,046
State.....		2,600	2,600	5,940	14,849	5,370	6,550	1,288	5,700	400			48,002
Smelt.....		108	60	242	6781	26,923	108,457	143,798	16,731	216			306,746
Smelt, whitebait.....	296	2,646	14,513	14,888	35,481	27,763	41,207	8,242	323				165,159
Sole, Dover.....	403,919	541,186	990,024	1,233,119	1,031,524	2,061,494	2,125,498	1,741,580	1,509,923	1,427,510	673,030	516,176	13,387,463
Sole, English.....	64,863	129,512	130,038	97,764	147,550	112,651	105,771	170,028	230,070	133,210	23,900		1,368,323
Sole, petrale.....	427,468	130,302	91,701	42,012	111,417	107,581	91,351	96,543	94,287	116,786	44,098	111,321	1,464,777
Sole, rex.....	117,403	121,944	112,722	95,682	151,133	99,913	114,912	135,434	125,970	84,027	34,418		1,241,944
Sole, sand.....	11,733	17,761	27,109	5,499	40,532	7,342	2,536	5,166	20,271	18,222	11,963		10,024
Sole, miscellaneous.....	816		1,545	177	836			85					4,333
Tuna, albacore.....	342	2,207	1,837	303	15	77		270	173	302	180		3,749
Turbot.....													186
Miscellaneous.....													
Crustacean:													
Crab, Dungeness.....	251,413	99,727	79,507	38,664	96,357	54,472	21,548	23,090					543,761
Crab, rock.....				20	20	550	180						1,040
Shrimp, ocean.....				56,782	220,324	249,126	531,547	538,674	285,456	350,766			2,222,705

TABLE 9
Monthly Landings of Commercial Fishing Boats in the Eureka Area During 1972

Mollusk:																
Octopus	66	153	157	124	221	136	483	829	929	1,332	150	394	4,974			
Oyster, giant Pacific	86,192	84,906	92,119	67,938	68,295	54,090	47,037	....	64,098	70,867	61,932	54,338	751,532			
Miscellaneous mollusk	130	65	....	....	....	....	....	....	....	....	....	....	185			
Total pounds	2,306,630	2,322,210	2,688,309	2,338,192	5,044,353	5,102,971	6,188,954	5,390,431	4,658,402	3,641,980	1,767,838	1,979,612	42,700,169			
Waters north of State:																
Fish:																
Flounder	....	119	502	831	397	....	392	425	292	12	....	....	2,640			
Flounder, arrowtooth	....	....	835	....	1,537	....	....	....	....	5,369	....	....	6,000			
Greenshiners	130	1,907	2,254	11,707	20,510	12,542	10,165	2,421	5,316	420	1,202	....	438			
Lingcod	13,597	8,317	23,289	38,306	26,259	16,833	37,194	93,546	137,565	70,042	25,835	....	21,735			
Rockfish	7,551	1,113	14,506	30,346	32,166	14,811	38,462	72,335	88,960	65,577	27,242	....	19,246			
Sablefish	....	....	....	....	65	81	850	36	77	....	....	....	1,118			
Salmon	....	673	173	480	514	....	115	1,809	478	....	....	....	4,142			
Sandfish	....	....	....	....	....	....	....	....	....	....	....	....	31			
Shark	40,002	742	32,612	183,026	174,440	101,231	300,380	610,207	709,670	494,678	239,651	....	132,784			
Sole, Dover	22,763	1,845	4,073	6,113	1,537	8,661	8,178	30,320	2,645	....	....	....	86,135			
Sole, English	3,346	7,400	5,115	4,008	9,136	1,843	7,032	7,221	22,665	3,527	1,306	....	9,124			
Sole, petrale	2,450	2,221	6,842	6,981	15,050	4,865	8,399	11,728	14,107	10,076	4,566	....	62,541			
Sole, rex	....	1,567	1,109	223	745	....	181	627	....	603	....	....	5,055			
Sole, sand	....	....	438	....	152	....	....	....	....	....	....	....	579			
Sole, miscellaneous	....	446	....	....	....	....	214	....	....	....	....	....	690			
Turbot	....	....	....	....	....	....	....	....	....	....	....	....	....
Crustacean:																
Shrimp, ocean	....	....	....	3,614	9,440	....	....	7,680	22,831	3,378	....	....	46,843			
Mollusk:																
Octopus	....	....	....	....	....	....	....	....	....	....	....	....	....
Total pounds	67,165	47,468	88,620	281,195	297,073	153,743	421,057	846,901	1,054,056	658,599	299,909	194,535	4,412,621			
Grand total	2,373,795	2,369,678	2,776,929	2,619,387	5,341,426	5,256,714	6,610,011	6,167,332	5,712,518	4,300,579	2,067,747	2,174,147	47,112,790			

MARINE LANDINGS 1972

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TABLE 9—Cont'd.

TABLE 10
Monthly Landings of Commercial Fishing Boats in the San Francisco Area During 1972

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Anchovy, northern.....	5,800	4,700	.....	36,880	61,810	45,750	33,220	58,117	78,700	35,570	.....	.....	360,727
Bonito, Pacific.....	.....	.....	.....	.....	.....	.....	.....	.....	1,038	4,442	.....	.....	5,478
Cabezon.....	215	.....	15	559	216	.....	.....	.....	22	12	.....	.....	779
Croaker, white.....	445	140	130	50	1,093	3,747	3,087	3,611	2,186	3,489	1,274	.....	20,226
Flounder.....	13,060	26,965	50,091	8,845	4,110	3,165	20,953	12,033	97,313	66,364	6,096	800	311,238
Flounder, arrowtooth.....	2,335	.....	330	.....	.....	.....	850	.....	.....	.....	760	3,555	7,830
Hake, Pacific.....	.....	.....	4,190	2,100	.....	.....	.....	3,000	.....	.....	.....	1,311	6,290
Hallibut, California.....	12,320	35,760	6,179	483	199	379	14,110	9,100	6,595	12,346	8,370	.....	107,162
Hallibut, Pacific.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12
Herring, Pacific.....	12,000	9,700	.....	.....	.....	.....	.....	.....	.....	.....	.....	108	21,808
Langcod.....	13,994	18,078	18,574	19,563	110,467	21,521	56,123	64,287	12,926	22,766	13,269	22,023	383,665
Mackerel, jack.....	.....	.....	.....	.....	.....	5	1,035	265	115	.....	.....	.....	1,500
Mudsnaker, longjaw.....	71	45	85	122	175	72	135	190	103	160	90	79	1,287
Porch.....	5,990	3,641	7,590	3,037	.....	.....	911	1,534	2,027	1,258	1,470	2,555	35,353
Pompano, Pacific.....	.....	.....	.....	.....	.....	148	484	.....	.....	70	.....	.....	702
Rockfish.....	89,221	204,739	173,293	91,091	113,426	69,627	58,384	104,191	82,684	141,477	154,865	338,712	1,621,710
Subfish.....	84,977	182,585	138,771	83,563	70,137	57,545	57,285	64,860	70,888	170,859	76,815	137,599	1,194,494
Salmon.....	.....	.....	135	564,911	707,209	563,015	580,001	148,139	14	.....	.....	.....	2,563,014
Sanddab.....	8,663	12,063	27,300	14,875	17,055	37,500	27,180	31,452	18,290	25,630	8,531	4,539	227,470
Seabass, white.....	.....	55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	401
Shark.....	7,434	4,390	290	50	250	160	14,203	6,567	8,610	31,613	10,297	4,937	78,811
Skate.....	1,405	1,900	1,400	300	.....	.....	.....	.....	.....	400	240	389	5,934
Smelt.....	475	816	3,146	2,633	6,155	8,314	2,618	667	2,251	390	.....	.....	27,435
Smelt, whitebait.....	328	468	2,403	5,139	10,417	3,950	1,008	486	.....	.....	.....	.....	24,109
Sole, Dover.....	132,269	998,999	726,541	185,115	269,939	165,546	185,655	226,739	196,519	135,772	113,136	224,653	3,561,663
Sole, English.....	126,933	87,639	61,817	18,968	32,915	33,937	81,064	120,748	103,585	120,468	45,643	76,303	629,122
Sole, petrale.....	224,621	141,584	32,230	122,834	168,485	65,924	83,686	103,295	69,912	25,575	42,685	39,615	1,158,636
Sole, rex.....	32,868	36,264	22,752	9,300	3,114	7,890	7,866	8,794	11,870	13,068	13,634	27,138	262,141
Sole, sand.....	8,460	6,960	18,130	7,645	825	8,880	16,820	33,799	38,163	9,440	1,553	161,015
Sole, miscellaneous.....	290	8	4	85	526	913

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TABLE 10
Monthly Landings of Commercial Fishing Boats in the San Francisco Area During 1972

Swordfish.....	----	----	----	----	----	----	----	245	----	----	245
Tuna, albacore.....	----	----	----	----	----	195,519	392,755	1,720,085	886,661	11,354	3,207,790
Turbot.....	----	1,260	1,690	----	----	450	1,790	2,015	605	440	8,811
Miscellaneous.....	----	----	----	----	----	----	165	2	----	----	167
Crustacean:											
Crab, Dungeness.....	35,035	38,158	21,085	4,296	6,239	16,429	----	----	----	151,829	335,395
Shrimp, ocean.....	----	----	30,279	90,797	7,720	----	91,526	----	----	----	220,322
Echinoderm:											
Sea urchin.....	20	----	----	----	----	----	----	----	----	----	20
Miscellaneous echinoderm.....	376	----	228	217	----	----	439	----	----	----	1,260
Mollusk:											
Abalone, red.....	2,148	----	2,418	1,683	3,207	3,263	6,511	4,776	1,991	4,342	2,567
Octopus.....	25	85	103	103	220	123	280	165	400	628	563
Oyster, eastern.....	1,065	1,136	463	1,135	826	1,120	559	225	1,294	884	110
Oyster, giant Pacific.....	3,669	3,767	3,881	4,029	4,343	3,341	11,069	14,272	10,941	12,207	12,340
Miscellaneous mollusk.....	20	20	20	20	20	20	20	20	20	20	20
Total pounds.....	854,137	1,821,217	1,334,339	657,150	1,540,748	1,296,007	1,379,857	1,919,690	2,677,481	1,729,480	697,326
Waters north of state:											
Fish:											
Tuna, albacore.....	----	----	----	----	----	----	----	191,086	----	----	191,086
Total pounds.....	----	----	----	----	----	----	----	191,086	----	----	191,086
Grand total.....	854,137	1,821,217	1,334,339	657,150	1,540,748	1,296,007	1,379,857	1,919,690	2,868,567	1,729,480	697,326

MARINE LANDINGS 1972

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TABLE 10—Cont'd.

TABLE 11
Monthly Landings of Commercial Fishing Boats in the Monterey Area During 1972

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Anchovy, northern.....	.....	.....	.....	50	.....	.....	.....	61,905	123,800	205,310	643,033	61,000	1,188,008
Bonito, Pacific.....	.....	.....	.....	.....	.....	.....	.....	12	28,941	17,739	.....	.....	47,681
Cabron.....	485	.....	188	22	.....	.....	84	88	366	.....	1,025	.....	2,261
Croaker, white.....	1,996	2,318	1,730	48,660	32,180	8,375	7,003	11,045	4,138	6,682	11,197	10,304	146,147
Flounder.....	6,220	4,845	5,746	1,126	873	1,422	2,944	5,447	10,940	1,761	2,123	7,123	50,569
Hallbut, California.....	171	4,715	740	2,696	822	2,014	12,943	21,659	2,122	292	423	1,069	49,356
Herring, Pacific.....	.....	.....	13,900	31,232	3,900	.....	.....	211	.....	.....	195	.....	103,949
Lingcod.....	13,099	14,323	16,286	4,717	16,022	17,340	12,656	6,829	18,526	39,116	43,162	68,854	273,199
Mackerel, jack.....	.....	.....	2,350	5,035	10,251	.....	11,850	27,470	11,130	5,000	36,730	11,270	124,246
Perch.....	28	343	1,829	2,342	.....	.....	12	265	5	.....	.....	.....	494
Pompano, Pacific.....	.....	.....	4	.....	40	874	76	1,250	2,105	147	.....	334	4,830
Rockfish.....	223,348	226,319	298,303	194,469	240,825	362,723	300,180	224,688	220,129	563,486	447,284	565,399	3,677,582
Sablefish.....	229,554	258,036	198,359	31,855	53,446	73,300	53,174	46,845	82,573	251,789	300,784	295,221	1,784,733
Salmon.....	.....	.....	.....	1,730	221,631	114,386	16,841	23,866	31,390	850	.....	.....	420,664
Sardines.....	0,220	18,013	10,462	187,762	12,468	19,299	21,097	37,767	8,544	7,828	2,567	11,162	167,691
Seabass, white.....	.....	.....	.....	16	.....	.....	85	1,320	1,620	4,670	214	124	8,049
Shark.....	2,808	1,633	528	153	310	1,642	5,500	4,790	2,167	10,104	6,637	3,563	39,973
Skate.....	2,462	9,785	7,115	6,669	7,835	3,700	3,911	12,479	2,510	2,510	2,290	2,668	63,434
Smelt.....	2,506	922	1,078	4,230	5,370	1,388	269	1,673	681	235	115	.....	18,367
Sole, Dover.....	955	8,675	5,065	2,350	7,345	6,980	4,460	6,974	2,355	1,265	549	890	51,415
Sole, English.....	0,435	35,800	20,014	24,666	16,864	14,275	17,165	33,068	35,205	31,922	25,766	26,755	310,925
Sole, petrale.....	11,755	22,705	24,490	20,694	20,753	14,150	13,083	37,504	39,910	71,155	34,620	27,240	338,011
Sole, rex.....	9,900	20,480	6,415	1,055	800	1,585	373	1,940	1,790	1,565	1,780	4,970	32,113
Sole, sand.....	.....	1,435	1,725	170	455	40	665	740	1,370	210	60	45	7,158
Sole, miscellaneous.....	.....	198	130	15	361	163	1,199	2,093	63	728	83	225	5,238
Tuna, albacore.....	.....	.....	.....	.....	.....	.....	658,299	1,173,240	2,051,696	521,143	.....	47,273	4,462,672
Miscellaneous.....	.....	.....	.....	.....	.....	96	.....	.....	.....	.....	.....	10	106

TABLE 11
Monthly Landings of Commercial Fishing Boats in the Monterey Area During 1972

Crustaceans:													
Crab, Dungeness.....	113	128	----	----	----	----	----	----	----	----	46	287	
Crab, rock.....	130	60	----	----	----	----	----	----	----	----	199	199	
Prawn, spot.....	2,143	1,036	1,638	----	----	----	----	----	4,598	5,419	5,206	20,970	
Mollusk:													
Abalone, red.....	----	----	507	----	----	159	----	----	----	68	60	159	
Octopus.....	144	433	9,023	106,878	3,706,763	6,327,100	1,768,775	131,025	107,125	61,490	45,660	3,380	
Squid.....	----	60	559	----	----	----	----	----	----	----	----	316	
Miscellaneous mollusk.....	----	----	----	----	----	----	----	----	----	----	----	----	
Grand total.....	626,485	633,071	994,996	493,507	4,446,707	6,978,811	2,813,898	1,876,343	2,762,121	1,902,577	1,662,111	963,684	25,673,911

MARINE LANDINGS 1972

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TABLE 11—Cont'd.

TABLE 12
Monthly Landings of Commercial Fishing Boats in the Santa Barbara Area During 1972

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Anchovy, northern.....	5,264,675	4,077,250	1,170,900	127,200	1,143,500	38,400	47,200	1,703,000	3,528,500	5,040,300	2,969,450	2,338,600	27,476,975
Barracuda, California.....	.....	3	30	.....	18	241	.....	.....	.....	411	.....	177	880
Bonito, Pacific.....	26,816	41	.....	545	34	21	688	220	1,105,993	683,667	539,737	275,457	2,631,149
Cabazon.....	.....	.....	25	.....	.....	.....	.....	104	.....	486	.....	102	2,089
Croaker, white.....	1,925	20	.....	.....	.....	.....	.....	800	.....	.....	.....	.....	2,445
Flounder.....	.....	557	4,833	2,635	200	.....	.....	.....	38	6	5	168	8,442
Hake, Pacific.....	.....	.....	50	.....	290	.....	.....	.....	.....	535	.....	.....	873
Hallibut, California.....	4,490	9,228	8,124	2,009	3,389	18,240	13,238	12,295	5,034	5,343	5,995	3,799	89,054
Lingcod.....	15,852	27,547	28,778	20,527	51,064	82,806	43,388	44,781	49,399	91,666	26,141	20,651	515,999
Mackerel, jack.....	.....	366,900	266,600	.....	.....	.....	25,420	33,008	24,888	.....	55,100	.....	771,916
Perch.....	1,151	1,184	1,008	3,055	35	.....	1,074	1,420	1,005	2,271	1,003	1,293	14,999
Pompano, Pacific.....	110	.....	215	.....	30	.....	.....	.....	.....	.....	.....	.....	2,000
Rockfish.....	97,254	216,814	301,311	296,282	301,682	331,981	299,454	305,021	211,531	354,379	315,972	259,382	3,291,223
Sablefish.....	.....	.....	225	1,213	3,727	2,725	1,425	988	.....	25	600	.....	10,947
Salmon.....	.....	.....	.....	1,073	42,410	51,058	26,271	1,197	8,013	.....	.....	.....	130,034
Sanddab.....	96	280	127	.....	.....	.....	14	.....	.....	.....	.....	.....	517
Sea bass, giant.....	49	.....	.....	.....	.....	166	295	284	.....	.....	14	.....	868
Sheepshead, California.....	4,423	517	2,150	1,256	2,915	4,119	10,056	21,453	9,834	13,273	13,273	2,610	71,155
Shark.....	6,153	3,008	3,655	4,082	9,047	11,906	9,535	6,701	2,584	5,318	9,862	3,122	74,973
Sheepshead, California.....	97	.....	16	.....	.....	10	.....	12	.....	.....	16	.....	184
Shake.....	287	40	.....	.....	.....	.....	.....	.....	125	.....	.....	.....	452
Smelt.....	41,790	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	41,790
Sole, Dover.....	80	.....	5,658	21,280	20,735	16,325	6,685	7,035	155	1,060	255	.....	62,793
Sole, Duvir.....	58,448	37,979	34,391	12,686	11,175	12,249	6,015	25,853	20,817	24,138	36,390	38,856	307,007
Sole, English.....	14,465	23,205	60,065	85,835	60,100	55,631	20,525	62,796	57,140	68,100	15,237	7,982	551,151
Sole, petrale.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sole, rex.....	4,540	4,800	7,907	15,715	17,137	2,449	1,205	1,085	3,425	3,520	5,165	6,022	73,120
Sole, sand.....	6,100	8,865	4,640	320	3,097	3,645	1,235	.....	.....	.....	835	.....	28,727
Sole, miscellaneous.....	1,918	6,979	4,328	326	187	.....	59	12	60	12	172	171	14,234
Swordfish.....	.....	.....	.....	.....	.....	.....	10,245	17,788	2,854	.....	.....	.....	34,280
Tuna, albacore.....	.....	.....	.....	.....	.....	1,119	1,890,489	701,083	542,638	746,260	46,856	.....	3,928,400
Turbot.....	.....	.....	.....	8	.....	2,465	70	.....	.....	.....	.....	.....	2,543
Yellowtail.....	.....	.....	.....	.....	.....	.....	.....	.....	297	.....	.....	.....	297
Miscellaneous.....	.....	185	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	187
Miscellaneous (animal food)....	38,825	62,160	20,820	20,140	50,113	20,025	36,380	30,080	15,975	34,050	20,150	21,335	370,053

FISH BULLETIN 101

TABLE 12
Monthly Landings of Commercial Fishing Boats in the Santa Barbara Area During 1972

Crustaceans:													
Crab, Dungeness.....	92	375	1,516	6,307	4,627	1,137	.....	.....	.....	.....	1,047	5,714	20,815
Crab, rock.....	15,995	30,526	22,247	12,528	9,133	11,867	15,557	17,283	12,562	11,606	13,531	17,144	191,094
Lecher, spiny.....	14,833	13,359	8,089	.....	.....	.....	.....	.....	.....	16,457	23,946	10,894	87,308
Echinoderm:													
Sea urchin.....	.....	2,490	.....	4,700	43,242	.....	.....	.....	.....	382	1,881	19,656	72,351
Mollusk:													
Abalone, black.....	13,544	.....	15,850	95,620	145,548	284,228	56,506	450	54,496	18,569	23,092	144,712	852,615
Abalone, green.....	12	.....	.....	.....	.....	857	.....	.....	1,066	213	880	670	3,228
Abalone, pink.....	10,708	.....	22,114	13,330	7,743	6,909	15,902	458	15,322	11,980	24,159	8,928	135,900
Abalone, red.....	119,785	5,560	84,405	96,806	71,005	56,882	94,830	1,668	113,955	129,083	61,549	108,871	941,119
Abalone, threaded.....	6	.....	.....	54	46	.....	.....	.....	331	.....	267	157	1,188
Abalone, white.....	.....	.....	.....	12	.....	.....	.....	.....	.....	128	15	.....	155
Octopus.....	.....	.....	.....	.....	122	56	.....	25	163	.....	153	.....	618
Oyster, giant Pacific.....	5,736	4,128	1,170	.....	.....	.....	.....	.....	.....	2,880	8,557	6,115	26,588
Squid.....	.....	516,333	223,159	1,767,750	338,940	434,360	.....	.....	.....	.....	.....	.....	3,644,435
Total pounds.....	5,800,585	5,420,973	2,296,456	2,622,698	2,351,301	1,447,247	2,631,936	3,344,757	5,809,047	7,264,733	4,222,702	3,304,528	46,516,965
Waters south of State:													
Fish:													
Bonito, Pacific.....	.....	1,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,000
Dolphinfish.....	.....	339	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	339
Total pounds.....	.....	1,339	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,339
Grand total.....	5,800,585	5,422,314	2,296,456	2,622,698	2,351,301	1,447,247	2,631,936	3,344,757	5,809,047	7,264,733	4,222,702	3,304,528	46,518,304

MARINE LANDINGS 1972

TABLE 12—Cont'd.

TABLE 13
Monthly Landings and Shipments of Commercial Fish Into the Los Angeles Area During 1972

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Anchovy, northern.....	20,037,518	15,947,168	4,587,538	7,676,738	5,539,932	805,657	648,569	292,682	270,472	20,219,994	22,321,532	10,827,028	109,174,438
Sierrita, California.....	-----	-----	3,475	793	916	629	6	90	3,454	18	30	-----	9,491
Blacktail.....	-----	-----	-----	-----	29,440	46,440	-----	-----	-----	-----	-----	-----	75,880
Bonito, Pacific.....	240,444	28,799	127	3,345	77	291	46,875	47,383	5,820,151	4,064,754	1,386,551	1,131,285	12,779,945
Croaker, white.....	71,173	34,608	35,611	18,690	7,378	12,392	2,453	1,900	2,116	-----	-----	-----	193,625
Dolphinfish.....	-----	-----	-----	-----	-----	-----	-----	-----	150	-----	-----	-----	150
Flounder.....	-----	-----	-----	-----	-----	-----	35	-----	-----	-----	-----	-----	35
Flycatcher.....	-----	-----	-----	24,543	40,958	51,483	12,755	-----	-----	-----	-----	-----	128,889
Hake, Pacific.....	-----	-----	-----	-----	150	210	-----	-----	-----	-----	-----	-----	360
Halfmoon.....	-----	-----	196	395	1,696	2,777	-----	1,690	-----	-----	-----	460	5,914
Hallibut, California.....	327	3,130	1,575	2,823	10,522	10,190	4,585	5,909	43	-----	6	73	40,164
Lingcod.....	69	13	16	-----	-----	85	13	95	-----	6	141	645	1,083
Mackerel, jack.....	5,692,756	3,163,487	4,535,840	646,160	552,455	1,721,177	6,561,984	9,854,614	13,391,557	641,687	2,090,410	981,155	50,215,291
Mackerel, Pacific.....	2,900	27,486	6,970	10,670	984	797	-----	-----	190	16,095	22,134	8,540	105,466
Mudsnaker, longjaw.....	-----	-----	-----	-----	-----	-----	-----	-----	2	-----	-----	-----	-----
Opah.....	-----	-----	-----	285	2,495	3,849	2,260	2,320	715	900	510	1,948	15,082
Porch.....	69	254	2,191	2,251	7,677	109,646	53	385	395	435	180	1,183	124,929
Pompano, Pacific.....	83,450	4,738	9,430	19,642	6,658	1,155	95	291	418	3,859	3,529	13,250	146,885
Queenfish.....	7,360	10,080	17,970	4,280	3,500	-----	253	-----	-----	280	3,090	-----	44,473
Rockfish.....	62,485	98,480	62,774	50,291	39,185	57,036	10,508	26,648	30,770	56,603	59,784	109,071	663,625
Sablefish.....	-----	-----	84	159	148	313	212	130	-----	118	42	-----	1,296
Sanddab.....	60	-----	-----	-----	-----	-----	79	220	-----	-----	-----	-----	359
Shedde, Pacific.....	-----	14,757	3,245	8,868	3,060	42,935	138,791	9,420	20,975	12,750	22,066	52,483	326,399
Sargo.....	-----	-----	100	-----	-----	297	220	110	-----	-----	-----	-----	627
Scupfish.....	12	-----	-----	927	235	843	1,022	89	431	388	613	574	5,195
Sea bass, giant.....	-----	-----	242	692	880	1,156	1,509	26	-----	43	-----	-----	3,938
Sea bass, white.....	182	194	299	3,963	11,244	10,878	7,299	131,201	82,579	9,833	4,564	11,255	243,471
Shad.....	2,263	1,949	4,122	3,921	6,957	3,451	5,698	15,053	5,844	4,283	5,175	11,071	75,727
Sheepshead, California.....	907	972	445	392	194	1,798	40	-----	-----	14	20	125	4,877
Skate.....	-----	9	-----	-----	-----	185	320	-----	60	-----	-----	-----	544

FISH BULLETIN 161

TABLE 13
Monthly Landings and Shipments of Commercial Fish Into the Los Angeles Area During 1972

Sweet	170	402	2,048	4,860	8,630	31,030	20,355	6,290	29,410	6,825	9,791	119,801
Sole, Dover					885	335						1,020
Sole, English					1,226	126						1,352
Sole, petrale				153	350	60						563
Sole, rex	14					38						49
Sole, miscellaneous					41	40	479	33	9			611
Swordfish				1,067	1,980	14,866	33,665	39,802	30,785	164	240	122,359
Tuna, albacore					335	545,095	257,126	677,009	484,540	294,850		3,258,856
Tuna, bluefin					3,016	125,101	325,462	264,429	315,700			3,255,708
Tuna, skipjack								41,200				41,200
Tuna, skipjack, black								27,000				27,000
Tuna, yellowfin								59,995				60,210
Turbot					110	250						360
Whiting, ocean					57							57
Yellowtail				544	371	734	165	20,573	2,546	3,103	21,849	58,884
Miscellaneous					16	2	196	1	61			276
Crustacean:												
Crab, rock	42,436	46,133	41,271	47,773	42,737	49,363	59,990	66,126	58,247	76,429	44,107	51,033
Lobster, spiny	19,570	27,179	15,568							43,083	43,475	24,908
Mollusk:												
Abalone, black	300	1,235	187	12,449	24,032	47,044	9,791	337	8,449	2,551	3,124	20,309
Abalone, green	39,718	375	7,347	5,894	42,113	35,100	38,733	431	32,471	17,336	16,474	23,853
Abalone, pink	5,173	163	20,131	44,385	9,887	9,696	11,400		15,953	15,277	13,902	13,014
Abalone, red	3,793			127	2,070	2,475	2,428		750	5,670	1,869	2,364
Abalone, white						4,312	4,868		5,861	19,627	13,338	9,835
Octopus		10		135						2		43
Squid	123,600	1,479,960	579,350	434,180	313,250	746,200	218,100	110,560		27	47,100	203,900
Miscellaneous mollusk												27
Total pounds	26,434,628	20,901,193	9,936,537	9,002,496	6,667,678	3,792,921	8,940,527	11,417,334	21,169,359	27,073,727	26,421,843	13,543,898
Waters north of State:												
Fish:												
Tuna, albacore									196,858	694,192		891,050
Total pounds									196,858	694,192		891,050
Waters south of State:												
Fish:												
Bonito, Pacific	226,152	113,389	22,930	218,865	594,243	1,218,258	235,810	1,788,131	101,670	347,455	4,758	4,871,691
Dolphinfish	1,060	991			85					85		2,221
Halibut, California		80										80
Maskered, jack									45	575		620
Perch		134	100	177								141

MARINE LANDINGS 1972
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TABLE 13—Cont'd.

TABLE 13—Continued
 Monthly Landings and Shipments of Commercial Fish Into the Los Angeles Area During 1972—Continued

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Waters south of State—Continued													
Fish—Continued													
Pompano, Pacific.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	90	.....	.....	90
Rockfish.....	.....	480	470	203	5,888	.....	68	.....	855	38	.....	160	8,162
Sargo.....	.....	21,404	7,976	229	1,030	.....	.....	.....	.....	.....	.....	.....	229
Sea bass, giant.....	1,947	.....	.....	1,387	.....	.....	78	.....	18,850	21,673	.....	.....	1,108
Shad, white.....	15,932	65,948	65,707	21,078	5,497	.....	480	.....	2,001	5,304	1,362	1,621	78,656
Shad.....	.....	.....	.....	.....	600	.....	.....	.....	.....	.....	.....	.....	600
Sherthead, California.....	.....	.....	.....	.....	145	.....	20	.....	.....	.....	.....	.....	165
Tuna, albacore.....	.....	1,070	.....	.....	.....	17,694	47,229	187,003	294,388	58,088	4,072	.....	610,201
Tuna, bigeye.....	.....	158,215	.....	.....	29,010	.....	2,772,550	1,087,567	5,285,386	2,323,702	2,349,075	180,323	11,014,693
Tuna, bluefin.....	.....	7,420	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tuna, skipjack.....	4,558	1,063,186	1,824,813	1,479,732	4,156,093	1,910,591	4,339,238	2,306,101	374,708	262,289	1,734,902	5,117,364	24,283,575
Tuna, skipjack, black.....	.....	.....	35,000	.....	611,498	311,346	8,560	.....	.....	.....	390	.....	985,744
Tuna, yellowfin.....	3,300,114	20,713,370	25,554,666	28,889,785	29,992,729	20,591,798	18,190,426	12,546,551	8,479,748	16,577,878	7,368,646	2,108,245	194,479,396
Walrus.....	.....	.....	.....	197	.....	490	.....	.....	.....	.....	.....	.....	883
Whitefish, ocean.....	70	.....	.....	240	.....	.....	.....	.....	.....	320	80	.....	805
Yellowtail.....	4,748	25,505	10,657	4,274	1,068	6,146	2,680	.....	.....	10,032	24,016	24,071	114,019
Total pounds.....	3,642,881	22,159,990	27,511,209	30,615,780	35,309,143	26,830,797	23,009,933	22,113,232	11,565,917	19,631,178	9,318,627	7,254,909	239,983,196
Central Pacific Islands:													
Fish:													
Tuna, albacore.....	.....	.....	.....	.....	.....	8,174	.....	.....	.....	.....	.....	.....	8,174
Total pounds.....	.....	.....	.....	.....	.....	8,174	.....	.....	.....	.....	.....	.....	8,174
SHIPMENTS:*													
Fish:													
Tuna, albacore.....	2,362,408	976,488	5,300,738	3,696,738	3,021,836	2,830,942	12,842,776	16,940,650	7,569,861	3,835,256	8,024,452	3,447,054	70,849,199
Tuna, bigeye.....	8,495	.....	1,978	.....	.....	.....	62,232	4,924	4,926	23,620	.....	77,025	183,289
Tuna, bluefin.....	.....	.....	4,114,139	69,085	101,062	562,029	846,901	351,187	.....	.....	.....	.....	6,043,303
Tuna, skipjack.....	4,875,974	2,880,161	12,424,885	8,903,417	8,147,295	7,171,753	8,984,378	8,352,095	4,873,846	7,270,849	4,064,887	6,016,482	79,823,760
Tuna, skipjack, black.....	2,351,618	327,664	3,216,710	3,803,360	65,355	129,540	25,003	1,410	1,450	179,846	41,820	.....	423,139
Tuna, yellowfin.....	.....	.....	.....	.....	3,270,189	2,539,068	2,980,182	1,584,393	3,628,323	1,856,999	2,498,880	3,013,033	31,073,419
Total pounds.....	9,598,495	4,184,313	20,947,311	20,417,554	14,571,660	12,763,066	22,426,623	27,731,373	16,429,593	13,167,310	14,620,049	11,553,594	188,401,040
Grand total.....	39,675,701	47,245,496	58,385,057	60,035,930	56,638,481	43,394,957	55,277,083	61,261,938	49,391,727	60,556,407	50,360,518	32,352,301	614,585,598

* 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 1972

TABLE 14
 Monthly Landings and Shipments of Commercial Fish Into the San Diego Area During 1972

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Anchovy, northern.....	---	---	29	130	994	---	28	113	---	---	---	---	1,284
Barracuda, California.....	41	28	292	288	937	430	724	97	73	851	203	---	3,834
Bonito, Pacific.....	39	48	135	13	97	170	47,765	1,944	31,007	28,019	785	20,255	133,318
Cabezon.....	---	8	---	---	---	45	---	---	50	---	---	---	158
Croaker, white.....	---	63	42	---	185	45	---	138	---	550	---	---	1,596
Dolphinfish.....	294	940	---	---	---	---	---	---	10	---	---	---	1,417
Flounder.....	---	---	---	---	---	30	135	54	---	---	---	---	255
Halfmoon.....	1,985	714	1,103	3,159	2,823	4,183	1,149	1,129	890	1,567	1,343	1,077	21,208
Hallibut, California.....	1,068	3,064	1,463	1,291	4,039	7,149	2,660	947	4,025	1,622	611	396	23,027
Lingcod.....	---	82	---	55	---	---	---	20	---	100	---	---	257
Mackerel, jack.....	---	32	28	---	---	---	---	60	---	---	276	---	396
Mackerel, Pacific.....	390	---	---	895	270	150	260	140	215	217	---	---	2,569
Opaleye.....	121	---	187	---	---	---	1,854	4,348	2,290	1,606	659	1,459	308
Perch.....	4	2,006	2,945	1,056	3,730	997	---	80	---	---	---	---	23,256
Pompano, Pacific.....	---	---	---	---	---	---	---	---	---	---	---	---	80
Rockfish.....	54,002	86,400	65,834	69,828	76,310	40,668	32,376	34,249	26,261	38,071	28,024	35,749	587,782
Salbfish.....	---	282	---	---	---	---	---	---	---	---	---	---	282
Salmon.....	---	---	---	---	---	---	19	22	---	---	---	---	41
Sandfish.....	---	56	50	47	---	---	86	17	---	---	---	---	272
Sardine, Pacific.....	---	2,900	3,580	517	7,621	---	---	---	15,733	6,200	6,490	---	45,921
Sculpin.....	1,412	1,726	739	1,205	488	12,699	12,934	7,719	2,580	4,180	5,693	5,416	56,701
Sea bass, giant.....	844	132	463	---	26	1,025	209	277	---	---	70	---	3,046
Shad, white.....	25,001	19,081	25,747	1,233	6,066	11,099	7,203	48,355	14,054	8,965	13,091	25,705	221,655
Shark.....	6,814	1,283	854	1,186	4,569	14,214	11,749	8,292	13,591	2,873	6,231	8,256	79,912
Sheephead, California.....	122	66	---	91	347	122	30	17	188	683	36	---	1,978
Squid.....	---	---	---	---	---	---	19	30	---	---	---	---	159
Sole, petral.....	---	48	294	90	---	---	---	118	---	4	---	---	554
Sole, miscellaneous.....	50	122	122	59	117	361	21	18	114	19	204	---	1,231
Stearfish.....	---	---	---	---	2,065	877	25,245	52,565	25,901	817	---	---	104,600
Tuna, albacore.....	---	---	---	---	21,089	273,398	157,380	192,844	1,064,321	80,381	---	---	1,790,071
Tuna, bluefin.....	---	---	---	---	---	---	90	106	58	---	---	---	254
Tuna, skipjack.....	---	---	---	---	---	---	---	12	206	---	---	---	218
Tuna, yellowfin.....	---	---	---	11,272	---	---	28	14	---	---	---	---	11,312
Whiting, ocean.....	---	278	---	---	---	---	211	455	158	---	---	---	1,412
Yellowtail.....	40	---	411	334	2,457	3,228	970	1,491	7,860	2,773	6,965	8,662	35,951
Miscellaneous.....	---	---	---	---	28	132	121	---	331	201	---	---	225

MARINE LANDINGS 1972

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TABLE 14
 Monthly Landings and Shipments of Commercial Fish Into the San Diego Area During 1972

TABLE 14—Continued
 Monthly Landings and Shipments of Commercial Fish Into the San Diego Area During 1972—Continued

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Crustacean:													
Crab, rock.....	3,340	1,981	111	114	453	2,858	6,994	1,449	140	3,051	2,478	2,556	25,525
Lobster, spiny.....	11,297	10,361	8,204	.....	.....	.....	.....	.....	.....	56,841	32,473	18,020	137,196
Echinoderm:													
Sea urchin.....	1,728	2,388	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4,086
Mollusk:													
Abalone, black.....	90	.....	12	1,404	10,220	14,944	2,874	.....	1,750	221	350	404	32,269
Abalone, green.....	34,633	.....	9,896	25,668	29,018	16,290	12,822	258	2,457	3,981	7,259	17,972	161,786
Abalone, rock.....	18,482	.....	12,442	13,810	15,717	6,975	4,123	379	5,415	12,228	13,855	5,793	103,129
Abalone, red.....	12,937	.....	12,336	9,793	14,416	4,962	17,732	.....	17,084	5,536	6,835	4,719	107,350
Abalone, threaded.....	.....	.....	.....	.....	.....	4	59	.....	29	145	784	159	980
Abalone, white.....	25,470	.....	10,883	9,820	7,129	3,416	3,722	991	2,170	3,956	13,803	4,783	86,123
Octopus.....	.....	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13
Oyster, giant Pacific.....	13	26	26	26	12	6	.....	.....	.....	.....	.....	.....	154
Squid.....	150	.....	287	.....	62	.....	.....	.....	.....	.....	.....	.....	499
Total pounds.....	200,889	135,781	159,339	156,001	189,826	163,516	467,936	323,303	364,122	1,249,437	231,321	175,479	3,816,950
Waters north of State:													
Fish:													
Tuna, albacore.....	.....	.....	.....	.....	.....	.....	.....	.....	23,074	.....	.....	.....	23,074
Total pounds.....	.....	.....	.....	.....	.....	.....	.....	.....	23,074	.....	.....	.....	23,074
Waters south of State:													
Fish:													
Anchovy, northern.....	.....	.....	.....	.....	.....	.....	.....	.....	51	.....	.....	.....	51
Bonito, Pacific.....	58,636	99,250	98,829	128,375	181,483	312,334	11,067	415,117	26,228	354,120	129,410	24,856	1,839,575
Dolphinfish.....	310	1,102	.....	1,804	.....	.....	.....	69	128	.....	244	.....	3,667
Halibut, California.....	.....	69	62	21	.....	.....	.....	.....	.....	.....	64	.....	162
Mackerel, jack.....	.....	.....	.....	.....	.....	.....	.....	.....	62	.....	.....	.....	62
Mackerel, Pacific.....	.....	.....	.....	.....	.....	.....	.....	.....	43	.....	.....	.....	43
Perch.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rockfish.....	9,020	12,219	1,735	.....	1,783	.....	1,169	388	1,943	200	377	541	34,012
Sculpin.....	.....	.....	.....	.....	2,094	27,549	19,438	20,753	286	.....	.....	.....	70,120
Sea bass, giant.....	1,441	1,269	524	483	.....	.....	.....	128	.....	370	113	.....	4,328

FISH BULLETIN 101

TABLE 14
 Monthly Landings and Shipments of Commercial Fish Into the San Diego Area During 1972

Seabass, white.....	15,110	10,569	6,720	311	.....	.....	.....	3,889	14,490	5,071	898	57,877
Shark.....	8,381	12,248	564	324	.....	.....	.....	2,223	2,879	1,660	74	30,076
Sole, miscellaneous.....	.....	.....	.....	.....	.....	.....	.....	18	.....	.....	.....	18
Swordfish.....	.....	.....	120	2,356	.....	.....	.....	1,982	.....	.....	.....	4,358
Tuna, albacore.....	.....	.....	.....	.....	.....	.....	2,596	579,470	378,380	280,171	285,018	1,771,890
Tuna, bigeye.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4,251
Tuna, bluefin.....	.....	.....	.....	.....	947,254	1,232,205	2,780,251	1,775,214	1,812,110	801,063	.....	9,237,096
Tuna, skipjack.....	163,445	645,013	1,046,795	776,505	1,683,660	2,314,269	2,341,527	1,985,971	280,574	175,903	398,796	887,403	
Tuna, skipjack, black.....	.....	.....	.....	.....	.....	115,276	990	.....	.....	.....	.....	116,396
Tuna, yellowfin.....	183,017	8,778,031	7,086,539	10,102,632	7,497,933	4,573,762	1,379,440	1,512,504	3,070,546	465,735	1,607,261	671,864	
Wahoo.....	.....	.....	465	278	.....	.....	.....	.....	171	.....	.....	914
Whitefish, ocean.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	295
Yellowtail.....	2,314	1,227	102	403	1,906	.....	.....	27	2,532	8,635	21,737	6,147
Miscellaneous.....	.....	.....	26	.....	.....	.....	.....	.....	.....	.....	.....	26
Crustacean:	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Crab, rock.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	27
Total pounds.....	441,874	9,560,917	8,342,161	11,018,854	9,368,829	8,393,664	5,467,372	6,165,114	5,414,063	3,122,825	3,149,220	1,566,737	71,840,919
SHIPMENTS*:
Fish:
Tuna, albacore.....	189,181	278,681	40,750	422,828	330,914	2,199,640	1,325,961	77,931	408,152	8,060	5,381,298
Tuna, bigeye.....	7,991	7,991
Tuna, bluefin.....	51,404	51,404
Tuna, skipjack.....	2,061,546	290,631	1,028,359	954,472	1,867,694	23,4759	660,213	3,478	84,964	861,233	7,690,734
Tuna, skipjack, black.....	11,268
Tuna, yellowfin.....	680,548	930,451	92,359	1,621,660	221,224	411,659	232,123	91,048	126,813	156,343	1,142,470	5,793,148
Total pounds.....	2,330,727	1,269,960	1,999,560	1,469,669	3,847,040	221,224	2,636,058	2,369,201	172,087	619,929	156,343	2,023,053	10,056,900
Grand total.....	2,873,490	10,906,658	10,401,060	12,644,164	13,405,704	8,678,494	8,771,266	8,757,718	5,974,215	4,991,891	3,538,884	3,794,299	94,737,843

MARINE LANDINGS 1972

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

TABLE 14—Cont'd.

TABLE 15
Value of Landings and Shipments of Commercial Fish Into California by Area, 1972

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
Fish:							
Anchovy, northern.....	----	360,727	1,188,098	27,476,975	109,174,438	1,335	138,201,573
Barracuda, California.....	----	\$28,767	\$24,263	\$364,475	\$1,260,195	\$213	\$1,677,914
Blacksmith.....	----	----	----	880	9,401	3,834	13,915
Bonito, Pacific.....	650	5,478	47,821	2,637,149	17,651,636	1,969,893	22,312,627
Cabezon.....	\$85	\$535	\$3,442	\$224,286	\$1,628,516	\$198,353	\$2,055,517
Croaker, white.....	24	\$104	\$164	2,089	----	58	5,853
Dolphinfish.....	20,226	\$3,867	146,147	\$83	203,026	1,566	373,410
Flounder.....	289,191	311,238	50,569	2,445	203,026	1,566	373,410
Flounder, arrowtooth.....	\$21,143	\$23,092	\$6,095	\$49	\$16,196	\$277	\$32,731
Flyingfish.....	156,117	7,830	----	339	2,371	5,074	7,784
Grenadiers.....	\$7,830	\$426	----	\$139	\$464	\$1,761	\$2,361
Hake, Pacific.....	64,023	9,290	----	875	360	----	10,525
Halfmoon.....	\$3,204	\$228	----	\$18	5,914	21,208	27,122
Halibut, California.....	40	107,162	49,556	89,054	40,244	23,189	309,245
Halibut, Pacific.....	\$23	\$36,281	\$20,885	\$45,613	\$19,718	\$13,069	\$135,589
Herring, Pacific.....	213	22	----	----	----	----	235
Lingcod.....	\$86	\$7	21,808	103,640	----	----	893
Mackerel, jack.....	2,062,353	393,695	273,199	515,599	1,083	257	3,246,186
Mackerel, Pacific.....	\$215,980	\$36,007	\$34,115	\$52,348	\$211	\$33	\$335,694
Mudsnapper, longjaw.....	2,742	1,390	124,246	771,916	50,216,821	458	51,117,573
Mudsnapper, shortjaw.....	\$139	\$70	\$10,503	\$32,282	\$2,109,810	553	\$2,152,557
Mudsnapper, white.....	----	----	----	105,466	2,612	----	108,078
Mudsnapper, yellow.....	----	1,287	----	\$6,006	\$507	----	\$6,513
Mudsnapper, black.....	----	\$3,800	----	2	----	----	1,289
Opaleye.....	69,004	35,353	5,228	14,599	15,082	309	15,390
Perch.....	\$13,335	\$12,217	\$1,072	\$4,544	\$6,967	\$6,163	\$44,298
Pompano, Pacific.....	702	4,830	2,345	146,975	80	80	154,332
Queenfish.....	766	\$1,620	\$112	\$36,492	46,473	----	\$42,010
Rockfish.....	6,537,176	1,621,710	3,677,582	3,291,223	671,787	621,774	16,421,252
Sablefish.....	\$455,700	\$132,657	\$330,693	\$291,015	\$140,789	\$139,435	\$1,490,289
Salmon.....	\$493,638	\$84,983	\$132,501	\$738	\$281	\$23	\$649,464
Sanddab.....	3,369,156	2,503,404	420,664	130,024	----	41	6,423,289
Sardine, Pacific.....	\$2,338,463	\$2,027,319	\$357,108	\$106,861	----	\$31	\$4,829,782
Sargo.....	\$25,113	\$27,470	\$67,091	\$57	399	272	\$20,822
Sculpin.....	\$63,147	\$26,528	\$16,636	\$81	\$54	\$68	\$106,514
Sea bass, giant.....	----	----	----	326,309	45,921	----	372,230
Sea bass, white.....	----	----	----	\$48,941	\$11,334	----	\$60,275
Shark.....	----	----	----	866	----	----	866
Sheephead, California.....	----	----	----	\$151	126,821	132,016	\$151
Skate.....	48,002	5,934	63,454	452	544	----	118,386
Smelt.....	\$1,178	\$153	\$1,470	\$35	\$80	----	\$2,016
Smelt, whitebait.....	306,746	27,435	18,367	41,750	119,801	199	514,298
Sole, Dover.....	\$23,201	\$3,651	\$2,989	\$835	\$5,710	\$42	\$36,428
Sole, English.....	165,159	24,199	----	----	----	----	189,358
Sole, rock.....	\$18,659	\$3,420	----	----	----	----	\$22,079
Sole, shortfin.....	18,384,778	3,551,693	51,415	92,793	1,020	----	22,081,697
Sole, longfin.....	\$1,504,302	\$291,894	\$3,284	\$8,116	\$22	----	\$1,807,688
Sole, black.....	1,454,458	\$29,122	\$10,025	\$307,007	1,353	----	\$3,001,965
Sole, sandbar.....	\$168,849	\$106,353	\$33,940	\$33,023	\$205	----	\$342,370

TABLE 15
Value of Landings and Shipments of Commercial Fish Into California by Area, 1972

TABLE 15—Continued
Value of Landings and Shipments of Commercial Fish Into California by Area, 1972—Continued

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Sole, petrale.....	1,546,500	1,158,436	338,011	531,181	563	554	3,575,245
	\$260,168	\$189,433	\$58,543	\$90,917	\$106	\$200	\$599,367
Sole, rex.....	1,334,185	202,141	52,115	73,120	49	---	1,681,610
	\$161,302	\$25,164	\$5,413	\$9,074	\$8	---	\$200,961
Sole, sand.....	192,215	161,015	7,185	28,737	---	---	389,152
	\$24,626	\$20,712	\$890	\$4,024	---	---	\$50,252
Sole, miscellaneous.....	7,802	913	5,258	14,224	611	1,249	30,057
	\$554	\$130	\$675	\$1,479	\$128	\$415	\$3,381
Swordfish.....	---	245	---	34,320	122,559	108,858	265,982
	---	\$147	---	\$19,132	\$72,997	\$67,361	\$159,637
Tuna, albacore.....	936,032	3,398,786	4,452,673	3,928,400	4,768,880	3,516,843	21,001,214
	\$297,965	\$1,089,891	\$1,424,923	\$1,258,159	\$1,626,358	\$1,186,758	\$6,884,054
Tuna, bigeye.....	---	---	---	---	187,225	4,251	191,476
	---	---	---	---	\$40,812	\$939	\$41,751
Tuna, bluefin.....	---	---	---	---	15,540,401	9,337,320	24,877,721
	---	---	---	---	\$3,344,234	\$1,997,421	\$5,311,655
Tuna, skipjack.....	---	---	---	---	24,294,775	11,650,109	35,944,884
	---	---	---	---	\$4,860,543	\$2,355,349	\$7,215,892
Tuna, skipjack, black.....	---	---	---	---	992,744	116,366	1,109,110
	---	---	---	---	\$76,159	\$8,727	\$84,886
Tuna, yellowfin.....	---	---	---	---	194,764,106	46,940,676	241,704,782
	---	---	---	---	\$42,970,725	\$10,376,097	\$53,346,822
Turbot.....	6,409	8,811	---	2,543	360	---	18,123
	\$765	\$551	---	\$204	\$54	---	\$1,574
Wahoo.....	---	---	---	---	893	914	1,807
	---	---	---	---	\$186	\$185	\$371
Whitefish, ocean.....	---	---	---	---	962	1,707	2,669
	---	---	---	---	\$105	\$218	\$323
Yellowtail.....	---	---	---	267	172,903	84,901	258,071
	---	---	---	\$103	\$23,887	\$14,982	\$38,972
Miscellaneous.....	186	167	106	187	276	251	1,173
	\$13	\$1	\$10	\$4	\$89	\$89	\$206
Miscellaneous (animal food).....	---	---	---	370,053	---	---	370,053
	---	---	---	\$7,401	---	---	\$7,401
Crustacean:							
Crab, dungeness.....	1,206,509	335,395	287	20,815	---	---	1,563,006
	\$644,808	\$228,865	\$161	\$14,702	---	---	\$888,536
Crab, rock.....	1,040	---	199	191,094	625,645	25,552	843,530
	---	---	\$10	\$20,349	\$91,877	\$4,033	\$116,269
Lobster, spiny.....	---	---	---	87,308	173,713	137,196	398,217
	---	---	---	\$131,109	\$273,259	\$217,621	\$662,019
Prawn, spot.....	---	---	20,970	---	---	---	20,970
	---	---	\$22,707	---	---	---	\$22,707
Shrimp, ocean.....	2,269,548	220,322	---	---	---	---	2,489,870
	\$340,436	\$33,094	---	---	---	---	\$373,530
Echinoderm:							
Sea urchin.....	---	20	---	72,351	---	4,066	76,457
	---	\$2	---	\$3,945	---	\$504	\$4,451
Miscellaneous echinoderm.....	---	1,260	---	---	---	---	1,260
	---	\$381	---	---	---	---	\$381
Mollusk:							
Abalone, black.....	---	---	---	852,615	130,008	32,269	1,014,892
	---	---	---	\$145,116	\$21,352	\$7,444	\$173,912
Abalone, green.....	---	---	---	3,228	259,814	161,786	424,828
	---	---	---	\$1,505	\$125,869	\$88,215	\$215,589
Abalone, pink.....	---	---	---	138,600	156,980	106,129	403,709
	---	---	---	\$76,702	\$77,050	\$56,041	\$209,793
Abalone, red.....	---	33,098	150	944,119	19,745	107,350	1,104,462
	---	\$15,420	\$90	\$484,762	\$9,823	\$52,310	\$562,405
Abalone, threaded.....	---	---	---	1,188	---	860	1,868
	---	---	---	\$419	---	\$205	\$624
Abalone, white.....	---	---	---	155	57,541	86,123	143,819
	---	---	---	\$107	\$33,154	\$52,483	\$85,744
Octopus.....	5,233	3,097	1,531	518	190	13	10,582
	\$519	\$264	\$381	\$92	\$35	\$4	\$1,285
Oyster, eastern.....	---	9,028	---	---	---	---	9,028
	---	\$26,543	---	---	---	---	\$26,543
Oyster, giant Pacific.....	751,832	95,555	---	28,588	---	154	876,127
	\$654,094	\$83,132	---	\$24,870	---	---	\$762,996
Squid.....	---	---	12,256,278	3,644,435	4,256,100	469	20,159,312
	---	---	\$389,178	\$52,625	\$91,951	\$56	\$533,810
Miscellaneous mollusk.....	185	60	310	---	27	---	582
	\$30	\$150	\$4	---	\$4	---	\$188
Total pounds.....	47,112,790	17,070,709	25,673,911	46,518,304	426,184,558	75,680,943	638,241,215
Total value.....	\$7,652,700	\$4,355,255	\$2,919,125	\$3,563,929	\$59,296,245	\$17,057,730	\$95,044,964

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TABLE 15
Value of Landings and Shipments of Commercial Fish Into California by Area, 1972

TABLE 15—Continued
Value of Landings and Shipments of Commercial Fish Into California by Area, 1972—Continued

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
SHIPMENTS:*							
Fish:							
Tuna, albacore.....	----	----	----	----	70,849,199	5,281,298	76,130,497
					\$29,860,981	\$2,137,082	\$31,998,063
Tuna, bigeye.....	----	----	----	----	183,220	7,991	191,211
					\$49,907	\$1,798	\$51,705
Tuna, bluefin.....	----	----	----	----	6,045,303	51,404	6,096,707
					\$1,710,856	\$10,846	\$1,721,682
Tuna, skipjack.....	----	----	----	----	79,828,760	7,996,794	87,825,554
					\$19,666,057	\$1,969,227	\$21,635,284
Tuna, skipjack, black..	----	----	----	----	423,139	11,265	434,404
					\$37,060	\$845	\$37,905
Tuna, yellowfin.....	----	----	----	----	31,073,419	5,708,148	36,781,567
					\$10,229,403	\$1,800,635	\$12,030,038
Total pounds.....	----	----	----	----	188,401,040	19,056,900	207,457,940
Total value.....	----	----	----	----	\$61,554,244	\$5,920,433	\$67,474,677
GRAND TOTAL POUNDS	47,112,790	17,070,709	25,673,911	46,518,304	614,585,598	94,737,843	845,699,155
GRAND TOTAL VALUE	\$7,652,700	\$4,555,255	\$2,919,125	\$3,563,920	\$120,850,489	\$22,978,163	\$162,519,661

* 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, 1972

TABLE 16
Value of Landings by Port, Eureka Area, 1972

	Pounds	Value
Eureka		
Dover sole.....	12,200,654	\$998,297
Salmon.....	1,136,028	801,096
Giant Pacific oyster.....	751,852	654,094
Dungeness crab.....	482,009	246,917
Rockfish.....	2,959,965	198,890
Sablefish.....	2,102,161	167,646
Albacore.....	512,255	163,065
Petrale sole.....	769,160	129,396
Rex sole.....	796,511	96,297
English sole.....	728,427	84,561
Lingcod.....	605,097	63,369
Sanddab.....	357,721	46,625
Ocean shrimp.....	129,112	19,367
Smelt.....	259,046	19,026
Whitebait smelt.....	92,258	10,423
Perch.....	42,990	8,311
Flounder.....	78,763	5,758
Sand sole.....	38,131	4,885
Arrowtooth flounder.....	87,681	4,398
Grenadiers.....	64,023	3,204
All other species.....	25,916	1,307
Port totals.....	24,229,740	\$3,726,935
Fort Bragg		
Salmon.....	1,580,623	\$1,103,742
Dover sole.....	2,865,904	234,498
Sablefish.....	2,382,721	190,021
Rockfish.....	1,758,480	125,438
Lingcod.....	769,388	80,574
Petrale sole.....	401,867	67,606
Dungeness crab.....	96,453	51,548
Albacore.....	127,083	40,454
Rex sole.....	217,700	26,320
English sole.....	182,033	21,132
Ocean shrimp.....	95,862	14,378
Whitebait smelt.....	36,744	4,151
Smelt.....	31,107	2,743
Arrowtooth flounder.....	50,284	2,522
Sanddab.....	8,821	1,061
All other species.....	27,273	1,890
Port totals.....	10,632,333	\$1,968,078
Crescent City		
Salmon.....	603,128	\$338,155
Ocean shrimp.....	2,044,584	306,691
Dover sole.....	3,318,218	271,507
Dungeness crab.....	473,767	253,201
Rockfish.....	1,807,593	130,528
Albacore.....	294,184	93,647
Sablefish.....	918,248	73,230
Lingcod.....	683,128	71,540
Petrale sole.....	375,473	63,166
English sole.....	543,998	63,153
Rex sole.....	319,974	38,685
Sand sole.....	153,984	19,728
Sanddab.....	128,571	15,461
Flounder.....	208,273	15,227
Perch.....	25,417	4,949
Whitebait smelt.....	38,157	4,085
All other species.....	68,989	3,383
Port totals.....	11,903,686	\$1,766,336
Trinidad		
Dungeness crab.....	174,280	\$93,142
Salmon.....	76,231	46,452
All other species.....	2,534	802
Port totals.....	253,045	\$140,396

TABLE 16
Value of Landings by Port, Eureka Area, 1972

TABLE 16—Continued
Value of Landings by Port, Eureka Area, 1972—Continued

	Pounds	Value
Albion		
Salmon.....	43,997	\$30,496
All other species.....	16,351	1,377
Port totals.....	60,348	\$31,873
All other ports		
Salmon.....	29,149	\$18,522
All other species.....	4,489	560
Totals.....	33,638	\$19,082
EUREKA AREA TOTALS.....	47,112,790	\$7,682,700

TABLE 16
Value of Landings by Port, Eureka Area, 1972

TABLE 17
Value of Landings by Port, San Francisco Area, 1972

	Pounds	Value
Bodega Bay		
Salmon.....	1,308,355	\$1,051,798
Albacore.....	207,399	66,507
Dungeness crab.....	86,964	59,342
Dover sole.....	665,864	54,724
Rockfish.....	489,393	43,244
English sole.....	360,263	41,238
Ocean shrimp.....	213,452	32,062
Petrale sole.....	145,693	23,824
Sablefish.....	305,878	21,754
Rex sole.....	89,075	11,089
Lingcod.....	78,571	7,186
Flounder.....	77,140	5,723
Sanddab.....	31,165	3,635
Smelt.....	24,098	3,094
Whitebait smelt.....	14,929	2,110
Sand sole.....	10,356	1,332
All other species.....	21,368	2,450
Port totals.....	4,129,963	\$1,431,112
San Francisco		
Albacore.....	1,335,296	\$428,190
Dover sole.....	2,081,512	171,068
Petrale sole.....	952,308	160,632
Salmon.....	142,285	116,208
Dungeness crab.....	149,206	101,814
Rockfish.....	1,009,963	81,338
English sole.....	565,066	64,795
Sablefish.....	780,000	55,474
Lingcod.....	299,966	27,434
Sanddab.....	195,325	22,779
Sand sole.....	149,714	19,258
California halibut.....	51,202	17,335
Flounder.....	215,082	15,958
Rex sole.....	110,208	13,720
Perch.....	6,987	2,415
Shark.....	32,673	1,662
Ocean shrimp.....	6,870	1,032
All other species.....	31,126	2,731
Port totals.....	8,145,789	\$1,303,843
Sausalito		
Albacore.....	1,082,822	\$347,229
Salmon.....	270,210	218,612
Dover sole.....	364,656	29,969
Northern anchovy.....	360,727	28,767
Pacific herring.....	9,700	6,150
Dungeness crab.....	8,148	5,560
Petrale sole.....	30,088	4,920
Sablefish.....	63,266	4,509
Rockfish.....	42,431	2,453
All other species.....	9,822	993
Port totals.....	2,241,870	\$649,153
Princeton		
Salmon.....	458,820	\$377,512
Albacore.....	199,427	63,950
Dungeness crab.....	55,805	38,080
California halibut.....	53,296	18,044
Red abalone.....	33,098	15,420
Rockfish.....	28,133	2,538
Shark.....	42,359	2,218
Whitebait smelt.....	9,270	1,310
Flounder.....	17,411	1,292
All other species.....	12,543	1,408
Port totals.....	910,162	\$521,772

TABLE 17
Value of Landings by Port, San Francisco Area, 1972

TABLE 17—Continued
Value of Landings by Port, San Francisco Area, 1972—Continued

	Pounds	Value
Oakland		
Albacore.....	572,430	\$183,562
Salmon.....	86,301	69,148
Dover sole.....	439,961	36,133
Sablefish.....	45,610	3,244
Rockfish.....	47,098	2,632
Dungeness crab.....	2,063	1,408
All other species.....	7,181	1,098
Port totals.....	1,200,344	\$297,225
Point Reyes		
Salmon.....	182,493	\$148,325
Giant Pacific oyster.....	74,014	64,392
Dungeness crab.....	17,723	12,094
All other species.....	3,220	595
Port totals.....	277,450	\$225,406
Berkeley		
Salmon.....	52,589	\$43,766
Dungeness crab.....	14,870	10,147
All other species.....	5,725	1,505
Port totals.....	73,184	\$55,418
Tomales Bay		
Eastern oyster.....	9,028	\$26,543
Giant Pacific oyster.....	21,541	18,740
Pacific herring.....	12,000	7,608
All other species.....	4,478	1,094
Port totals.....	47,047	\$53,985
Richmond		
Perch.....	16,373	\$5,684
White croaker.....	16,193	3,095
Salmon.....	2,106	1,748
All other species.....	1,613	153
Port totals.....	36,285	\$10,680
All other ports		
Longjaw mudsucker.....	1,287	\$3,860
Perch.....	5,577	1,927
All other species.....	1,751	874
Totals.....	8,615	\$6,661
SAN FRANCISCO AREA TOTALS.....	17,070,709	\$4,555,255

TABLE 17
Value of Landings by Port, San Francisco Area, 1972

TABLE 18
Value of Landings by Port, Monterey Area, 1972

	Pounds	Value
Monterey		
Albacore.....	2,041,196	\$653,204
Rockfish.....	3,572,445	318,865
Squid.....	9,724,090	308,722
Sablefish.....	1,672,717	124,185
Petrale sole.....	302,083	52,320
Lingcod.....	236,341	29,513
English sole.....	222,225	24,328
Spot prawn.....	20,970	22,707
Salmon.....	16,443	14,027
White croaker.....	129,787	10,960
Jack mackerel.....	116,746	9,869
Sanddab.....	91,423	9,102
California halibut.....	17,936	7,559
Rex sole.....	46,300	4,809
Northern anchovy.....	112,890	2,305
Dover sole.....	35,945	2,296
Shark.....	25,636	1,461
Pacific bonito.....	18,715	1,347
Skate.....	43,405	1,006
All other species.....	22,123	4,095
Port totals.....	18,469,386	\$1,602,680
Moss Landing		
Albacore.....	2,379,734	\$761,551
Salmon.....	380,417	322,604
Squid.....	2,534,188	80,456
Northern anchovy.....	1,075,208	21,958
Pacific herring.....	102,332	13,416
English sole.....	87,736	9,005
Rockfish.....	76,506	8,787
Sablefish.....	112,016	8,316
Sanddab.....	75,331	7,500
Petrale sole.....	35,928	6,223
Lingcod.....	27,350	3,415
Smelt.....	14,007	2,294
Pacific bonito.....	26,917	1,937
Flounder.....	10,713	1,291
All other species.....	62,859	4,892
Port totals.....	7,001,242	\$1,254,245
Santa Cruz		
Salmon.....	23,804	\$20,477
California halibut.....	30,296	12,768
Albacore.....	31,773	10,168
White seabass.....	7,937	3,999
Flounder.....	33,075	3,987
Pacific pompano.....	4,052	3,876
Rockfish.....	28,631	3,041
Lingcod.....	9,508	1,187
All other species.....	34,207	2,697
Port totals.....	203,283	\$62,200
MONTEREY AREA TOTALS.....	25,673,911	\$2,919,125

TABLE 18
Value of Landings by Port, Monterey Area, 1972

TABLE 19
Value of Landings by Port, Santa Barbara Area, 1972

	Pounds	Value
Morro Bay		
Albacore.....	3,214,077	\$1,029,381
Rockfish.....	1,848,351	163,061
Red abalone.....	219,687	112,799
Petrale sole.....	287,245	49,165
Salmon.....	51,264	42,690
Lingcod.....	385,699	39,159
Giant Pacific oyster.....	28,586	24,870
Dungeness crab.....	16,225	11,460
English sole.....	63,860	6,869
California halibut.....	10,751	5,507
White seabass.....	10,084	5,363
Sea urchin.....	69,861	3,809
Rock crab.....	26,655	2,838
Dover sole.....	31,708	2,773
Perch.....	8,813	2,733
Rex sole.....	21,126	2,622
All other species.....	39,609	4,723
Port totals.....	6,333,601	\$1,609,822
Santa Barbara		
Red abalone.....	640,543	\$328,890
Black abalone.....	823,505	140,162
Rockfish.....	1,145,397	98,951
Spiny lobster.....	52,852	79,367
Pink abalone.....	135,509	74,991
White seabass.....	58,881	31,313
Pacific bonito.....	322,332	27,414
Petrale sole.....	107,725	18,438
California halibut.....	34,270	17,553
Swordfish.....	30,081	16,769
English sole.....	130,749	14,064
Rock crab.....	122,272	13,021
Rex sole.....	46,879	5,817
Salmon.....	6,165	5,299
Miscellaneous (animal food).....	248,370	4,967
Lingcod.....	48,451	4,919
Shark.....	35,243	4,777
Dover sole.....	44,905	3,928
Albacore.....	6,791	2,175
Green abalone.....	3,228	1,505
All other species.....	4,622	1,132
Port totals.....	4,048,770	\$895,452
Port Huene		
Northern anchovy.....	27,476,975	\$364,475
Pacific bonito.....	2,258,295	192,066
Squid.....	3,644,435	52,625
Jack mackerel.....	770,600	32,227
Spiny lobster.....	7,154	10,743
California halibut.....	9,017	4,618
Shark.....	16,065	2,249
Black abalone.....	11,600	1,574
Red abalone.....	3,491	1,792
Swordfish.....	3,118	1,738
Pink abalone.....	2,347	1,299
White seabass.....	2,409	1,281
All other species.....	55,850	2,180
Port totals.....	34,261,356	\$669,267
Avila		
Albacore.....	698,367	\$223,674
Salmon.....	72,595	88,872
Red abalone.....	78,793	40,457
Rockfish.....	277,169	26,788
Petrale sole.....	136,134	23,301

TABLE 19
Value of Landings by Port, Santa Barbara Area, 1972

TABLE 19—Continued
Value of Landings by Port, Santa Barbara Area, 1972—Continued

	Pounds	Value
Avila—Continued		
English sole.....	109,280	11,755
Lingcod.....	81,397	8,264
California halibut.....	10,039	5,142
Sand sole.....	28,697	4,018
Rock crab.....	35,359	3,765
Dungeness crab.....	4,590	3,242
Miscellaneous (animal food).....	120,298	2,406
Pacific bonito.....	25,250	2,147
White seabass.....	4,002	2,128
Perch.....	5,505	1,723
Dover sole.....	16,180	1,415
Miscellaneous sole.....	12,878	1,339
All other species.....	23,075	2,597
Port totals.....	1,739,628	\$423,033
Oxnard		
Spiny lobster.....	25,892	\$38,882
California halibut.....	24,965	12,787
Albacore.....	8,183	2,621
Rockfish.....	17,374	1,905
Pacific bonito.....	20,275	1,724
Black abalone.....	9,885	1,682
All other species.....	18,732	4,064
Port totals.....	125,306	\$63,665
Ventura		
Spiny lobster.....	804	\$1,207
All other species.....	7,101	1,285
Port totals.....	7,905	\$2,492
All other ports		
All species.....	1,738	\$198
Totals.....	1,738	\$198
SANTA BARBARA AREA TOTALS.....	46,518,304	\$3,563,929

TABLE 19
Value of Landings by Port, Santa Barbara Area, 1972

TABLE 20
Value of Landings and Shipments by Port, Los Angeles Area, 1972

	Pounds	Value
Terminal Island		
Landings		
Yellowfin tuna.....	194,545,756	\$42,922,551
Skipjack tuna.....	24,289,458	4,859,479
Bluefin tuna.....	14,971,867	3,221,888
Jack mackerel.....	44,562,634	1,872,255
Albacore.....	4,682,619	1,597,007
Pacific bonito.....	14,565,776	1,344,065
Northern anchovy.....	105,291,561	1,215,376
Black skipjack tuna.....	900,681	69,096
Bigeye tuna.....	187,225	40,812
Sardine.....	35,648	5,347
Perch.....	107,825	4,363
Pacific mackerel.....	71,793	4,089
All other species.....	1,100	24
Total landings.....	404,213,945	\$57,156,352
Shipments*		
Albacore.....	70,849,199	\$29,860,981
Skipjack tuna.....	79,789,260	19,656,819
Yellowfin tuna.....	31,073,419	10,229,403
Bluefin tuna.....	6,045,303	1,710,836
Bigeye tuna.....	183,220	49,967
Black skipjack tuna.....	423,139	37,060
Total shipments.....	188,363,540	\$61,545,006
Port totals.....	592,577,485	\$118,701,358
San Pedro		
Landings		
Pacific bonito.....	2,656,247	\$245,107
White seabass.....	389,220	188,453
Jack mackerel.....	3,821,160	160,542
Spiny lobster.....	99,378	156,343
Rockfish.....	618,535	129,303
Green abalone.....	256,806	124,412
Bluefin tuna.....	598,534	122,346
Squid.....	4,235,000	91,927
Pink abalone.....	155,284	76,217
Rock crab.....	503,827	73,989
Swordfish.....	106,468	63,413
Yellowfin tuna.....	218,350	48,174
Pacific sardine.....	290,661	43,594
Pacific pompano.....	146,975	36,492
White abalone.....	57,541	33,154
Giant sea bass.....	87,131	26,526
Yellowtail.....	172,087	23,775
Albacore.....	59,440	20,272
Black abalone.....	121,433	19,972
Flyingfish.....	128,106	19,782
California halibut.....	40,069	19,632
White croaker.....	202,588	16,161
Northern anchovy.....	1,174,579	13,558
Shark.....	71,957	12,316
Red abalone.....	19,745	9,823
Black skipjack tuna.....	92,063	7,063
Smelt.....	96,521	4,916
Opaleye.....	15,082	3,905
California barracuda.....	9,144	3,278
Sculpin.....	4,871	2,002
Pacific mackerel.....	33,471	1,906
Perch.....	13,172	1,877
Halfmoon.....	5,914	1,453
Skipjack tuna.....	5,317	1,064
All other species.....	71,061	3,845
Port totals.....	16,567,737	\$1,806,592

TABLE 20
Value of Landings and Shipments by Port, Los Angeles Area, 1972

TABLE 20—Continued
Value of Landings and Shipments by Port, Los Angeles Area, 1972—Continued

	Pounds	Value
Wilmington		
Landings		
Jack mackerel.....	1,832,938	\$77,009
Pacific bonito.....	423,662	39,094
Northern anchovy.....	2,515,914	29,041
Blacksmith.....	67,880	2,375
Spiny lobster.....	930	1,463
Black abalone.....	8,575	1,410
All other species.....	27,008	1,650
Total landings.....	4,876,907	\$152,042
Shipments*		
Skipjack tuna.....	37,500	\$9,238
Total shipments.....	37,500	\$9,238
Port totals.....	4,914,407	\$161,280
Dana Point		
Landings		
Spiny lobster.....	35,541	\$55,914
Rockfish.....	6,553	1,544
All other species.....	2,787	736
Port totals.....	44,881	\$58,194
Redondo Beach		
Landings		
Spiny lobster.....	23,133	\$36,393
Rock crab.....	119,404	17,535
White seabass.....	3,618	1,752
Rockfish.....	8,474	1,750
All other species.....	2,767	665
Port totals.....	157,396	\$58,095
Newport Beach		
Landings		
Spiny lobster.....	7,550	\$11,878
White seabass.....	18,042	8,736
Albacore.....	24,519	8,362
Swordfish.....	13,702	8,161
Rockfish.....	25,337	6,045
All other species.....	11,066	1,873
Port totals.....	100,216	\$45,055
Long Beach		
Landings		
Spiny lobster.....	2,455	\$3,862
Northern anchovy.....	192,384	2,221
All other species.....	555	329
Port totals.....	195,424	\$6,412
Malibu		
Landings		
Spiny lobster.....	1,457	\$2,292
All other species.....	5,845	1,005
Port totals.....	7,302	\$3,297
Avalon		
Landings		
All species.....	4,780	\$2,688
Port totals.....	4,780	\$2,688
Santa Monica		
Landings		
Rockfish.....	7,598	\$1,257
All other species.....	2,983	1,163
Port totals.....	10,581	\$2,420

TABLE 20
Value of Landings and Shipments by Port, Los Angeles Area, 1972

TABLE 20—Continued
Value of Landings and Shipments by Port, Los Angeles Area, 1972—Continued

	Pounds	Value
Playa Del Rey		
Landings		
All species.....	2,996	\$1,333
Port totals.....	2,996	\$1,333
All other ports		
Spiny lobster.....	2,393	\$3,765
Totals.....	2,393	\$3,765
LOS ANGELES AREA TOTALS.....	614,685,598	\$120,850,489

* Beginning in 1965 only tuna shipments are recorded.

TABLE 20
Value of Landings and Shipments by Port, Los Angeles Area, 1972

TABLE 21
Value of Landings and Shipments by Port, San Diego Area, 1972

	Pounds	Value
San Diego		
Landings		
Yellowfin tuna.....	46,940,841	\$10,376,089
Skipjack tuna.....	11,850,109	2,355,349
Bluefin tuna.....	9,337,320	1,967,421
Albacore.....	3,511,585	1,185,051
Pacific bonito.....	1,940,906	195,434
Spiny lobster.....	114,692	181,925
White seabass.....	265,103	140,587
Rockfish.....	532,844	117,188
Green abalone.....	161,224	87,909
Swordfish.....	108,131	66,911
Pink abalone.....	108,121	56,037
White abalone.....	86,123	52,483
Red abalone.....	107,103	52,189
Sculpin.....	126,667	45,203
Shark.....	87,100	19,315
Yellowtail.....	81,350	14,355
California halibut.....	20,821	11,734
Pacific sardine.....	45,700	11,279
Black skipjack tuna.....	116,366	8,727
Black abalone.....	32,269	7,444
Perch.....	22,467	5,922
Rock crab.....	19,053	3,007
Halfmoon.....	8,740	2,342
Giant sea bass.....	7,198	1,943
Dolphinfish.....	4,823	1,674
California barracuda.....	3,126	1,015
All other species.....	21,953	4,095
Total landings.....	75,451,735	\$16,972,628
Shipments*		
Albacore.....	5,281,298	\$2,137,062
Skipjack tuna.....	7,996,794	1,969,227
Yellowfin tuna.....	5,708,148	1,800,635
Bluefin tuna.....	51,404	10,846
Bigeye tuna.....	7,991	1,798
Black skipjack.....	11,265	845
Total shipments.....	19,056,900	\$5,920,433
Port totals.....	94,508,635	\$22,893,061
Oceanside		
Landings		
Spiny lobster.....	17,666	\$28,022
Rockfish.....	95,139	21,395
White seabass.....	13,983	7,405
Shark.....	28,819	6,751
Halfmoon.....	12,468	3,341
Pacific bonito.....	28,987	2,919
Albacore.....	5,058	1,707
California halibut.....	2,345	1,322
All other species.....	15,027	3,419
Port totals.....	219,472	\$76,281
All other ports		
Landings		
Spiny lobster.....	4,838	\$7,674
All other species.....	4,898	1,147
Totals.....	9,736	\$8,821
SAN DIEGO AREA TOTALS.....	94,737,843	\$22,978,163

* Beginning in 1965 only tuna shipments are recorded.

TABLE 21
Value of Landings and Shipments by Port, San Diego Area, 1972

TABLE 22
Statewide Commercial Partyboat Catch by Species
(Not including anchored barges)
1963-1972 *

Species	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Barracuda, California.....	483,699	303,070	443,304	892,697	470,480	372,246	358,518	373,801	50,474	38,243
Basu, kelp and sand.....	1,219,344	1,103,394	1,250,313	1,278,639	1,003,914	1,217,963	1,246,175	922,260	945,121	842,681
Bouty, Pacific.....	775,219	1,208,804	806,222	644,415	349,932	1,102,093	1,159,241	651,598	152,726	418,694
Cableton.....	9,726	6,491	7,575	10,293	5,419	4,949	4,583	6,372	4,811	11,432
Hallbut, California.....	135,669	141,465	115,213	88,792	65,482	54,693	27,634	21,668	10,598	5,140
Lingcod.....	27,513	25,263	33,260	44,676	43,559	42,440	32,693	61,823	63,239	103,965
Macarel, jack.....	9,542	6,577	25,619	19,027	16,236	13,588	11,272	15,725	10,611	5,913
Macarel, Pacific.....	145,660	191,219	151,486	205,990	195,395	75,933	120,036	129,470	224,223	245,882
Rockfish.....	982,659	966,801	1,347,430	1,688,718	1,894,057	2,102,539	1,978,981	2,463,582	2,222,943	3,054,939
Salmon.....	72,457	92,021	51,677	70,151	81,946	127,684	111,389	98,201	130,812	151,895
Sculpin.....	33,896	73,544	71,888	69,851	63,280	39,883	63,011	82,522	84,913	65,886
Siswau, white.....	19,800	14,001	9,775	3,972	3,385	4,138	4,056	4,359	5,266	3,538
Sheepshead, California.....	18,443	26,822	41,651	52,667	42,676	33,075	49,620	39,464	38,300	33,541
Tuna, albacore.....	135,272	112,358	65,771	74,680	65,497	129,710	48,887	112,106	160,261	86,500
Tuna, bluefin.....	747	663	92	1,998	3,166	1,231	1,470	1,833	749	1,470
Whitefish, ocean.....	6,231	6,949	13,810	15,587	18,184	22,155	36,474	40,900	29,800	24,632
Yellowtail.....	45,735	29,104	18,267	80,183	31,292	50,949	73,202	97,576	44,608	50,631
All others.....	142,639	114,400	163,505	166,470	145,073	205,410	421,327	298,275	421,739	305,283
Total number of fish.....	4,278,502	4,434,176	4,634,558	5,406,420	4,444,164	5,731,201	5,725,575	5,630,635	4,604,152	5,482,405
Number of anglers.....	643,155	665,445	688,103	857,000	780,102	849,654	802,811	873,327	728,126	792,618

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

TABLE 22
Statewide Commercial Partyboat Catch by Species (Not including anchored barges) 1963-1972

TABLE 23
Inshore Bait Landings by Area
Pounds and Value
1972

Species	Sacramento	San Francisco and Monterey	Los Angeles	San Diego	Statewide*
Clam					
Freshwater.....	640,527	----	----	----	640,527
Gaper.....	\$67,430	----	----	----	\$67,430
Jackknife.....	----	----	45,551	12,653	58,204
Purple.....	----	----	\$30,580	\$7,612	\$38,192
Unclassified.....	----	----	1,423	14,316	15,739
	----	----	\$810	\$6,919	\$7,729
	----	----	----	----	90
	----	----	----	----	\$52
Crab					
Sand.....	----	----	6,786	28	6,814
Shore.....	----	----	\$20,770	\$175	\$20,945
Crayfish.....	----	----	25	----	26
Killifish.....	----	----	\$5	----	\$7
Mudsucker, longjaw.....	----	----	----	223	6,511
Mussel (bay and rock).....	----	----	101,114	14,428	\$5,830
Sculpin, staghorn.....	702	185	\$17,121	\$2,024	115,799
Shrimp	\$2,297	\$695	----	----	\$19,171
Bay.....	71,402	1,665	----	----	887
Brine.....	\$113,433	\$2,423	----	----	\$2,992
Ghost.....	----	----	15,672	5,882	73,067
Red.....	----	----	\$35,718	\$11,222	\$115,856
Total.....	----	----	1,103	----	300,065
Total.....	----	----	\$1,103	----	\$174,934
Total.....	----	----	----	----	21,554
Total.....	----	----	----	----	\$46,940
Total.....	----	----	----	----	1,103
Total.....	----	----	----	----	\$1,103
Total.....	712,631	1,850	171,674	47,530	1,244,847
	\$183,160	\$3,118	\$106,107	\$28,040	\$502,875

* 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 1972

TABLE 24
Recorded Catch of Live Bait for Saltwater Sportfishing 1968-1972

Species	Thousands of pounds*				
	1968	1969	1970	1971	1972
Anchovy.....	14,353	10,627	12,210	12,774	11,700
Mackerel, jack.....	158	103	----	9	5
Mackerel, Pacific.....	----	8	----	1	----
Sardine, adult.....	57	34	----	----	T
Sardine, juvenile.....	----	----	6	T	T
Squid.....	23	9	----	10	----
Miscellaneous†.....	57	----	4	----	16
Total pounds.....	14,648	10,781	12,220	12,794	11,721
Number of Vessels‡.....	19	10	11	14	12

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

T Less than 500 pounds.

† Consists primarily of queenfish and white croaker.

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

TABLE 24
Recorded Catch of Live Bait for Saltwater Sportfishing 1968-1972

TABLE 25
California Ocean Recreational Salmon Landings and Success¹ by Fishery, Port,
Month and Species, in Numbers of Fish—1972

	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	2	a	6	11	a	55	119	0.4
Skiff.....	--	--	--	--	--	--	--	--	--	--	--	--	182	541	0.4	318	2,928	0.6
Eureka																		
Partyboat.....	0	0	a	2	3	a	2	3	a	119	150	a	303	379	a	620	774	1.1
Skiff.....	--	--	--	--	--	--	--	--	--	--	--	--	966	3,258	0.5	3,083	11,419	0.9
Fort Bragg																		
Partyboat.....	0	0	a	4	4	a	26	27	a	260	260	a	437	437	a	1,113	1,659	1.2
Skiff.....	--	--	--	--	--	--	--	--	--	--	--	--	597	585	0.4	2,082	4,202	0.7
San Francisco																		
Partyboat.....	21,312	0	2.1	21,086	123	1.5	8,258	956	0.9	5,800	5,228*	1.8	15,340	469	1.5	10,274	61	1.5
Skiff.....	10,425	0	1.5	8,525	0	1.4	6,065	435	1.0	1,813	812	1.2	2,394	181	0.6	2,917	33	1.1
Monterey																		
Partyboat.....	221	0	b	108	8	b	152	11	b	241	17	b	190	13	b	98	7	b
Skiff.....	1,225	0	0.2	1,200	0	0.2	1,367	8	0.6	865	809	0.3	1,107	768	0.5	1,755	95	0.9
Statewide																		
Partyboat.....	21,533	0	2.1	21,200	136	1.5	8,438	967	0.9	6,420	5,657*	1.8	16,276	1,309	1.5	21,160	2,617	1.4
Skiff.....	11,650	0	0.9	9,725	0	0.8	7,452	443	0.9	2,679	1,621	0.6	5,249	5,333	0.5	10,155	18,676	0.8

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TABLE 25
California Ocean Recreational Salmon Landings and Success¹ by Fishery, Port, Month and Species, in Numbers of
Fish—1972

	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.....	33	74	0.4	3	1	0.2	0	0	*	0	0	*	0	0	*	97	204	0.4
Skiff.....	868	799	0.3	6	26	0.1	--	--	*	--	--	*	--	--	*	1,077	4,294	0.4
Eureka																		
Partyboat.....	142	627	0.8	26	116	0.4	3	14	*	0	1	*	0	0	*	1,217	2,067	1.0
Skiff.....	1,437	4,701	0.6	179	220	0.4	--	--	*	--	--	*	--	--	*	5,665	19,997	0.7
Fort Bragg																		
Partyboat.....	168	221	0.4	8	11	0.1	0	0	*	0	0	*	0	0	*	2,016	2,619	1.0
Skiff.....	169	736	0.3	10	10	0.1	--	--	*	--	--	*	--	--	*	2,858	5,333	0.6
San Francisco																		
Partyboat.....	19,100	28	1.7	17,361	0	1.6	7,439	18	0.9	515	0	0.4	0	0	*	135,485	6,833*	1.5
Skiff.....	3,929	21	1.0	2,838	12	1.1	1,600	0	1.2	512	13	1.0	0	0	*	41,018	1,507	1.1
Monterey																		
Partyboat.....	6	1	^b	11	2	^b	1	1	*	0	0	*	0	0	*	1,028	60	^b
Skiff.....	998	97	0.6	1,043	97	0.8	490	25	0.2	190	0	0.2	0	0	*	10,991	1,798	0.4
Statewide																		
Partyboat.....	19,449	951	1.5	17,409	120	1.6	7,443	33	0.9	515	1	0.4	0	0	*	139,843	11,833*	1.5
Skiff.....	7,191	6,284	0.6	4,076	325	0.8	2,060	25	0.6	612	13	0.6	0	0	*	80,679	32,720	0.7

¹ Salmon per angler-day, species combined. * No sampling. ^b Data not comparable to that of other ports or months.
^{*} Includes 18 pink salmon.

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TABLE 25—Cont'd.

TABLE 26
California Commercial Troll Salmon Landings by Port-Area, Month and Species,
in Pounds¹ and Numbers—1972

	April		May		June		July		August		September		Season	
	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
Crescent City														
King.....	0	0	159,816	18,777	132,050	14,994	35,285	3,775	13,037	1,366	1,293	259	341,481	39,071
Silver.....	0	0	14,816	2,969	60,682	10,752	75,262	11,461	10,887	1,315	0	0	161,617	26,697
Pink.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eureka														
King.....	114	20	487,070	64,268	303,145	36,135	150,587	15,407	17,109	2,123	3,431	281	962,256	108,264
Silver.....	0	0	12,547	2,568	130,759	23,106	64,993	5,995	36,388	4,385	2,672	330	247,659	29,855
Pink.....	0	0	22	7	34	9	0	0	0	0	0	0	56	16
Fort Bragg														
King.....	0	0	274,056	30,145	316,077	28,839	510,277	43,572	121,524	10,898	20,119	1,698	1,242,033	114,972
Silver.....	0	0	23,100	4,394	87,271	14,483	263,006	34,901	37,372	4,563	3,161	424	413,919	58,765
Pink.....	0	0	0	0	14	4	0	0	0	0	0	0	14	4
San Francisco														
King.....	125	20	545,459	49,156	595,413	46,994	446,139	36,026	555,227	46,236	146,824	11,126	2,289,187	189,558
Silver.....	0	0	19,452	3,545	111,711	17,154	56,876	7,342	24,774	2,927	1,124	142	213,937	31,110
Pink.....	0	0	0	0	55	22	0	0	0	0	0	0	55	22
Monterey														
King.....	2,805	281	270,091	19,722	160,346	12,440	39,312	2,956	24,799	1,844	40,369	2,905	537,722	40,528
Silver.....	0	0	3,950	767	3,098	801	3,819	463	298	29	49	5	13,202	2,067
Pink.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Statewide														
King.....	5,044	321	1,737,372	172,198	1,507,031	139,402	1,181,000	101,735	731,695	62,277	212,636	16,269	5,372,779	492,303
Silver.....	0	0	72,965	14,243	205,221	69,296	463,356	63,135	100,907	12,419	7,096	901	1,050,555	157,994
Pink.....	0	0	22	133	36	36	0	0	0	0	0	0	155	43

¹ Dressed, head on.

TABLE 26
California Commercial Troll Salmon Landings by Port-Area, Month and Species, in Pounds¹ and Numbers—1972

APPENDIX I
 Monthly Landings From Inland Waters During 1972

Species	January	February	March	April	May	June	July	August	September	October	November	December	Totals
LANDINGS													
Fish													
Blackfish, Sacramento.....	25,783	29,070	74,210	46,800	58,700	2,091	.....	.....	.....	22,800	41,133	36,825	337,412
Carp.....	33,015	21,104	20,955	17,250	12,700	167	.....	.....	.....	4,700	46,390	40,175	196,506
Lamprey.....	.....	.....	.....	1,500	.....	.....	.....	.....	.....	.....	.....	.....	1,500
Crustacean													
Crayfish.....	106	58	101	110	42,646	12,186	950	6,330	7,975	533	669	1,484	72,808
Mollusk													
Snail, freshwater.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	85	327	412
Amphibia													
Frog.....	625	1,802	2,182	690	1,219	1,025	1,690	128	598	1,228	213	50	11,450
Total pounds.....	59,529	52,634	97,448	66,600	115,265	15,469	2,280	6,458	8,573	29,281	88,490	78,981	629,288

MARINE LANDINGS

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APPENDIX I
Monthly Landings From Inland Waters During 1972

APPENDIX II
Value of Landings From Inland Waters by County During 1972

County and species	Pounds	Value	County and species	Pounds	Value
Alameda			San Diego		
Crayfish.....	2,417	\$1,984	Carp.....	475	\$71
Lamprey.....	1,500	450	County totals.....	475	\$71
Frog.....	6,410	4,048			
County totals.....	10,327	\$6,482	San Joaquin		
Contra Costa			Carp.....	60	\$5
Blackfish, Sacramento.....	330,095	\$66,019	Crayfish.....	1,339	413
Carp.....	190,415	15,449	Frog.....	224	144
County totals.....	520,510	\$81,468	Snail, freshwater.....	327	53
			County totals.....	1,950	\$615
Lake			Solano		
Blackfish, Sacramento.....	3,181	\$636	Crayfish.....	3,113	\$959
Carp.....	3,949	320	County totals.....	3,113	\$959
County totals.....	7,130	\$956			
Madera			Stanislaus		
Crayfish.....	20	\$9	Carp.....	1,807	\$147
Frog.....	1,282	963	Blackfish, Sacramento.....	4,136	827
County totals.....	1,302	\$972	County totals.....	5,943	\$974
Merced			Yuba		
Crayfish.....	661	\$309	Frog.....	813	\$524
Frog.....	397	298	County totals.....	813	\$524
Snail, freshwater.....	85	17	Grand total.....	620,288	\$115,255
County totals.....	1,143	\$624			
Sacramento			Recap		
Crayfish.....	65,258	\$20,111	Blackfish, Sacramento.....	337,412	\$67,482
Frog.....	2,324	1,499	Carp.....	196,706	15,992
County totals.....	67,582	\$21,610	Lamprey.....	1,500	450
			Frog.....	11,450	7,476
			Crayfish.....	72,808	23,785
			Snail, freshwater.....	412	70
			Grand total.....	620,288	\$115,255

APPENDIX II
Value of Landings From Inland Waters by County During 1972

**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	395,998.00	----	395,998.00
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	72,252.50	110,158.50
1953	37,172.50	89,476.50	126,649.00
1954	40,269.00	65,946.50	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	35,592.90	91,660.85	127,253.75
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

* No data available 1921-1930.

*APPENDIX III
KELP HARVEST IN TONS*

4. DESIGNATED COMMON NAMES OF CERTAIN MARINE ORGANISMS OF CALIFORNIA

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Marine Resources Region

4.1. INTRODUCTION

Common names of the more important fishes have been designated by the California Department of Fish and Game for many years. The original purpose was to assist in collecting accurate catch statistics. For the Department to understand the State's many fisheries it is essential that the catch of each species be known. A consistent terminology on the part of both the commercial fishing industry and the sportsman is of great importance in the collection of catch records since confusion and inaccuracy result when a particular species is listed by different names in different parts of California or if a certain common name refers to any of several species.

In California as elsewhere in the world, common nomenclature of marine organisms did not grow up with the language as in Europe or Asia. The people who settled here naturally named things because of similarities—either real or apparent, superficial or significant—to familiar species in their homeland. As a result when California initiated its recording system for commercial landings in 1916, the need for more uniform terminology with respect to common names became readily evident. A chaotic situation existed with a given species being identified by different names in different parts of the state, in different fisheries, or even in adjacent fish markets, and a number of species being referred to by a single name.

The State Legislature enacted a law in 1919 to help bring some order to collecting records concerning California fisheries. This regulation stated: "The names used in the record for designating the variety of species of fish handled must be the name which is in common usage, and the Fish and Game Commission shall have the power to decide what is the common usage name of any variety." In 1933, the law was amended to substantially its present form and its application limited to commercial varieties in connection with fish receipts. It now forms Section 8013 of Part 3 (Commercial Fishing), Article 6 (Commercial Fishing Reports), California Fish and Game Code, and reads: "The names used in the receipt for designating the species of fish dealt with shall be those in common usage, and may be designated by the Department." Section 45 of General Provisions and Definitions in the Fish and Game Code states: "Fish means wild fish, mollusks, or crustaceans, invertebrates, or amphibians, including any part, spawn, or ova thereof."

While the present law specifically applies to commercial landings, the Department has designated common names to species taken by other than commercial fishermen in an effort to insure uniformity in State publications and records, and in an attempt to attain common usage on the part of all fishermen.

4.2. PRIOR LISTS

Walford (1931) prepared the first comprehensive list to establish official common names of California fishes which were handled commercially, or which were of particular interest to fishermen or dealers. The more important freshwater fishes, marine bony fishes, sharks and rays, marine mollusks, and marine and freshwater crustaceans were covered. Several of the names on this list were coined and not accepted by the public, others proved detrimental to marketing, and with the passage of time some of the scientific nomenclature changed. A revised official list was prepared by Roedel (1948), and reasons for name changes were set forth by the same author in 1949. Roedel prepared a revised and expanded official list of common names in 1953, and 9 years later authored a revised and enlarged version (Roedel 1962).

In 1950 Shapovalov and Dill assigned common names to all freshwater fishes of California. This list was revised and expanded in 1959 (Shapovalov, Dill, and Cordone).

Committees of the American Fisheries Society on Names of Fishes have prepared three lists of common and scientific names of fishes from the United States and Canada (Amer. Fish. Soc. 1948, 1960, 1970). These lists have been widely used and have contributed to eliminating confusion in fish nomenclature. As far as the common names of California's marine fishes are concerned, the great majority are in agreement with the 1970 list; however, a few names, both common and scientific, are in variance with those used in this state.

Other than the few invertebrate species covered by Walford (1931) in his list of official common names, there has been no previous attempt by the Department to designate common names for some of the more common California marine invertebrates.

4.3. PRESENT LIST

This list includes the names of quite a few species that have not appeared on previous lists of official names of California marine fishes. In fact an attempt is made to list all known shallow water marine and anadromous finfishes occurring within California waters. These include fishes found in an area between the Mexican and Oregon borders and offshore at least 50 miles. Miller and Lea (1972) provided the basic background as far as the species covered and the scientific nomenclature used for identifying these species. Selected species in representative invertebrate groups have been designated only for animals likely to be taken by sport and commercial fishermen, most apt to be seen by a casual visitor to the seashore, or that are representative of a particular group.

With respect to common names, several rules have governed their designation. These rules were directed toward the guiding principle that the purpose of the names is to assist in compiling accurate records as well as preparing comparable reports.

An ideal common name would be one that is in exclusive usage throughout the entire range of the species; however, relatively few names have such universal and select usage in the vernacular. It then becomes necessary to evaluate such common names as are applied to a species with regard to the following criteria:

1. Usage in California by both sportsmen and commercial fishermen, and the fishing industry. .
2. Usage in other areas, particularly adjacent states. .
3. Usage on other common name lists. .
4. Connotations that may have an undesirable effect upon market ability. .
5. The name should be brief and descriptive. .
6. The name should indicate rather than confuse relationships. .
7. Is generally accepted by most California workers in the field of taxonomy. .

While most of the designated names meet the majority of the above criteria, there are some exceptions. In these cases, the overriding criterion was the firm implantation of the name in the vernacular. Some of these names are misleading, are not accepted on other lists, are not necessarily descriptive, but in general are acceptable to California taxonomists.

When a common name on the present list deviates from either Roedel (1962) or the American Fisheries Society (1970), an annotated explanation is given. Not all changes in scientific nomenclature are annotated; however, Miller and Lea (1972) present detailed reasons for certain taxonomic positions.

Unlike previous lists which list the official common name and the scientific designation, this list presents a third column which details other common names by which the species is or has been known. This listing should facilitate the identification of species referred to in the literature and records.

The order in which the jawless fish (agnaths) and the sharks and rays (cartilaginous fishes) are presented generally follows that of the American Fisheries Society (1970).

The list of bony fish (teleosts) families is arranged in the sequence of Greenwood et al (1966), with the species in each family alphabetized to generic and specific names. The class, order, and family sequence for mollusks follows the arrangement of Keen (1963), while the family arrangement of the arthropod order Decapoda follows Schmitt (1921).

Designated common name	Scientific name	Other common names
Black hagfish	<i>Eptatretus deani</i> (Evermann and Goldsborough)	
Pacific hagfish *	<i>Eptatretus stoutii</i> (Lockington)	California hagfish, lamperina
Whiteface hagfish *	<i>Myxine circifrons</i> Garman	
Western river lamprey *	<i>Lampetra ayresii</i> (Gunther)	Western brook lamprey, river lamprey, western lamprey
	This species appears as western brook lamprey in AFS (1970); however, we apply the term river since it seems more descriptive of the animals' habitat.	
Pacific lamprey *	<i>Lampetra tridentata</i> (Gairdner)	Eel, river eel, three-toothed lamprey, western lamprey
Frilled shark	<i>Chlamydoselachus anguineus</i> Garman	Frill shark
Sixgill shark	<i>Hexanchus griseus</i> (Bonnaterre)	Shovelnosed shark, cow shark, mud shark, sixgill cowshark, griset, caffà bota
Sevengill shark	<i>Notorynchus maculatus</i> Ayres	Cowshark, mud shark, spotted cowshark, sevengill cowshark, Pacific sevengill cowshark
Horn shark	<i>Heterodontus francisci</i> (Girard)	Port Jackson shark, bullhead shark, horned shark, California horn shark
	AFS (1970) changed the common family name from horn sharks since family is widely known as bullhead sharks; we concur.	
Whale shark	<i>Rhincodon typus</i> Smith	Mhor, chagrin, tiburon ballenas, tint reva
Bigeye thresher *	<i>Alopias superciliosus</i> (Lowe)	
Common thresher	<i>Alopias vulpinus</i> (Bonnaterre)	Thresher, longtail shark, thresher shark, fish shark, sea ope, pez zorro, pesca pavone, swiveltail, fox shark, swingtail, sea fox
	With the addition of the bigeye thresher to California, we follow Bigelow and Schroeder (1948) and add the attributive "common" to the name for <i>A. vulpinus</i> .	

* Not listed in Roedel, 1962.

Ragged-tooth shark*	Odontaspis ferox (Risso)	
White shark	Carcharodon carcharias (Linnaeus)	Maneater shark, great white shark
Bonito shark	Isurus oxyrinchus Rafinesque	Mackerel shark, spriglio, paloma, shortfin mako, mako
	Shortfin mako in AFS (1970). We follow Miller and Lea (1972) and retain the name bonito shark.	
Salmon shark	Lamna ditropis Hubbs and Follett	Porbeagle, mackerel shark, tiger shark
Basking shark	Cetorhinus maximus (Gunnerus)	Elephant shark, bone shark, sailfish, sunfish, pelerin, hoe-mother, capidoli, oilfish, oil shark, ground shark
	We follow Bigelow and Schroeder (1948) in placing this species in the family Cetorhinidae. Roedel (1962) and AFS (1970) include the basking shark in the family Lamnidae.	
Brown cat shark	Apristurus brunneus (Gilbert)	Brown shark
Longnose cat shark*	Apristurus kampa	
Swell shark	Cephaloscyllium ventriosum (Garman)	California swell shark
	We follow Kato, Springer, and Wagner (1967) and regard C. uter a synonym of C. ventriosum.	
Filetail cat shark	Parmaturus xaniurus (Gilbert)	Filetail shark
Bull shark	Carcharhinus leucas (Valenciennes)	Roundnose shark, pigeye shark
	Referred to as the roundnose shark, Carcharhinus azureus, by Roedel (1962); we follow Kato, Springer, and Wagner (1967).	
Pelagic whitetipped shark*	Carcharhinus longimanus (Poey)	Oceanic whitetip shark
Dusky shark	Carcharhinus obscurus (Lesueur)	Bay shark, bay grayshark, injerto
	Referred to as the bay shark, Carcharhinus lamiella, by Roedel (1962); we follow Kato, Springer, and Wagner (1967).	
Narrowtooth shark*	Carcharhinus remotus (Dumeril)	
Tiger shark	Galeocerdo cuvier (Peron and Lesueur)	Spotted shark, tigrone
Soupin shark	Galeorhinus zyopterus Jordan and Gilbert	Oil shark, soupin, tope
Gray smoothhound	Mustelus californicus Gill	Mud shark, dogfish, paloma, sand shark, gray shark
Brown smoothhound	Mustelus henlei (Gill)	Mud shark, dogfish, paloma, sand shark, Henle's shark
Sicklefin smoothhound	Mustelus lunulatus Jordan and Gilbert	Dog shark, gato, smoothhound
Blue shark	Prionace glauca (Linnaeus)	Great blue shark
Pacific sharpnose shark	Rhizoprionodon longurio (Jordan and Gilbert)	Sharpnose shark
Leopard shark	Triakis semifasciata Girard	Cat shark
Scalloped hammerhead	Sphyrna lewini (Griffith)	
Bonnethead	Sphyrna tiburo (Linnaeus)	Pacific bonnethead, shovelhead shark
Smooth hammerhead	Sphyrna zygaena (Linnaeus)	Hammerhead shark, common hammerhead, axhead shark, shovelnose shark
Pygmy shark*	Euprotomicrus bispinatus	Slim shark
Prickly shark	Echinorhinus cookei Pietschmann	Bramble shark
Pacific sleeper shark	Somniosus pacificus Bigelow and Schroeder	Sleeper shark, nurse shark
Spiny dogfish	Squalus acanthias Linnaeus	Dog shark, dogfish, grayfish, Pacific grayfish, spinarola, Pacific dogfish, California dogfish
Pacific angel shark	Squatina californica Ayres	California angel shark, angel shark, monkfish, northern angel shark, squat, squato

Designated common name	Scientific name	Other common names
Thornback	<i>Platyrhinoidis triseriata</i> (Jordan and Gilbert)	Round skate, thornback, guitarfish, California thornback, shovelnose
Shovelnose guitarfish	<i>Rhinobatos productus</i> (Ayres)	Shovel nosed shark, pointed nosed guitarfish, guitarfish
Banded guitarfish	<i>Zapteryx exasperata</i> (Jordan and Gilbert)	Striped guitarfish, mottled guitarfish
Pacific electric ray	<i>Torpedo californica</i> Ayres	California electric ray, electric ray, torpedo fish, California torpedo, crampfish, torpedo
Deepsea skate*	<i>Raja abyssicola</i> Gilbert	Abyssal skate
Big skate	<i>Raja binoculata</i> Girard	Big skate of California
California skate	<i>Raja inornata</i> Jordan and Gilbert	Common skate
Sandpaper skate	<i>Raja kincaidii</i> Garman Black skate in AFS (1970). We follow Miller and Lea (1972) in using the common name sandpaper skate for <i>Raja kincaidii</i> since this species is never black and has a uniformly rough denticulated dorsal surface. Black skate is designated for <i>Raja trachura</i> because this is the only black colored California skate.	Black skate
Longnose skate	<i>Raja rhina</i> Jordan and Gilbert	Longnosed skate, California longnose skate
Starry skate	<i>Raja stellulata</i> Jordan and Gilbert	Prickly skate, cheap skate
Black skate	<i>Raja trachura</i> Gilbert Roughtail skate in AFS (1970). See comment under sandpaper skate.	Monterey skate, rock skate, roughtail skate
White skate*	<i>Bathyraja spinosissima</i> (Beebe and Tee-Van)	
Diamond stingray	<i>Dasyatis dipterura</i> (Jordan and Gilbert)	Pacific stingray, rat-tailed stingray, stingaree
Pelagic stingray	<i>Dasyatis violacea</i> (Bonaparte)	
Round stingray	<i>Urolophus halleri</i> Cooper	Stingaree, stingray
California butterfly ray	<i>Gymnura marmorata</i> (Cooper)	Butterfly stingray, stingaree, butterfly ray, angel shark, bay ray, eagle sting ray
Bat ray	<i>Myliobatis californica</i> Gill	Eagle ray, California sting ray, stingaree, bat sting ray, batfish
Pacific manta	<i>Manta hamiltoni</i> (Newmann)	Manta, devilfish, sea devil, blanketfish
Spinetail mobula	<i>Mobula japonica</i> (Muller and Henle)	
Smoothtail mobula	<i>Mobula lucasana</i> Beebe and Tee-Van	Mobula, Pacific mobula
Ratfish	<i>Hydrolagus colliei</i> (Lay and Bennett)	Chimaera, elephantfish, rattail, rabbitfish, goatfish, king-of-the-herrings, water hare

Green sturgeon	<i>Acipenser medirostris</i> Ayres	
White sturgeon	<i>Acipenser transmontanus</i> Richardson	Sacramento sturgeon, Oregon sturgeon
Bonefish	<i>Albula vulpes</i> (Linnaeus)	Ladyfish, bananafish, sanducha, macabi, mullet, silver shuttle
California moray	<i>Gymnothorax mordax</i> (Ayres)	Moray, moray eel, eel, conger eel, marina, muraena
Catalina conger	<i>Gnathophis catalinensis</i> (Wade)	
Pacific worm eel*	<i>Myrophis vafer</i> Jordan and Gilbert	
Spotted snake eel*	<i>Ophichthus triserialis</i> (Kaup)	Pacific snake eel
Yellow snake eel*	<i>Ophichthus zophochir</i> (Jordan and Gilbert)	
Slender snipe eel*	<i>Nemichthys scolopaceus</i> Richardson	
American shad	<i>Alosa sapidissima</i> (Wilson)	Shad, common shad
Pacific herring	<i>Clupea harengus pallasii</i> Linnaeus	Herring, California herring
Threadfin shad	<i>Dorosoma petenense</i> (Gunther)	
Round herring	<i>Etrumeus teres</i> (DeKay)	California round herring, Pacific round herring, Japanese herring
	Roedel (1962) listed <i>Etrumeus acumintus</i> as Pacific round herring; however, <i>E. acumintus</i> is now considered synonymous with <i>Etrumeus teres</i> , a species with a worldwide distribution in warmer seas. We drop the attributive "Pacific" since it now is inappropriate.	
Flatiron herring	<i>Harengula thrissina</i> (Jordan and Gilbert)	
Middling thread herring	<i>Opisthonema medirastre</i> Berry and Barrett	Pacific thread herring
	Roedel (1962) listed Pacific thread herring, <i>Opisthonema libertate</i> ; however, this species has been subsequently divided into three species, only one of which, the middling thread herring, <i>Opisthonema mediraste</i> , occurs in California waters.	
Pacific sardine	<i>Sardinops sagax caeruleus</i> (Jenyns)	California sardine, pilchard, sardina, young called firecrackers
	AFS list this species as <i>Sardinops sagax</i> , but we follow Miller and Lea (1972) and retain the subspecies designation of <i>caeruleus</i> .	
Deepbody anchovy	<i>Anchoa compressa</i> (Girard)	Deep-bodied anchovy, sprat, sardinus, California deepbody anchovy
Slough anchovy	<i>Anchoa delicatissima</i> (Girard)	Southern anchovy
Slim anchovy	<i>Anchoviella miarcha</i> (Jordan and Gilbert)	
Anchoveta	<i>Cetengraulis mysticetus</i> (Gunther)	
Northern anchovy	<i>Engraulis mordax</i> Girard	California anchovy, anchovy, plain anchovy, young called pinheads

Designated common name	Scientific name	Other common names
Pink salmon	<i>Oncorhynchus gorbuscha</i> (Walbaum)	Humpback salmon, lost salmon, dog salmon, haddo, holia, gorbuscha
Chum salmon	<i>Oncorhynchus keta</i> (Walbaum)	Calico salmon, dog salmon, keta, lekai salmon, hayho
Silver salmon	<i>Oncorhynchus kisutch</i> (Walbaum)	Silversides, coho salmon, dog salmon, hookbill, medium red salmon, tschaviche, jack salmon, hooped, kisutch, showitz, quisutsch, bielaya ryba
	Coho salmon in AFS (1970). We follow Roedel (1962) since the term "silver salmon" is so deeply ingrained in the laws of California and in the vernacular of the fishermen.	
Sockeye salmon *	<i>Oncorhynchus nerka</i> (Walbaum)	Kokanee, Fraser River salmon, nerka, sukkegh salmon, blueback salmon, red salmon, redfish, sawqui salmon, Krasnaya ryba, benimasu
King salmon	<i>Oncorhynchus tshawytscha</i> (Walbaum)	Chinook salmon, Sacramento River salmon, quinnat salmon, spring salmon, tyree salmon, black salmon, Columbia River salmon, tchaviche, tshawytscha
	AFS (1970) lists "chinook"; however, we retain "king" as the designated name since it is so deeply ingrained in the laws of California. Both names are widespread in the vernacular of the fishermen.	
Cutthroat trout	<i>Salmo clarkii</i> Richardson	Blackspotted trout, coastal cutthroat trout, blueback, sea trout
Rainbow trout (Steelhead)	<i>Salmo gairdnerii</i> Richardson	Steelhead (a sea-run rainbow trout), steelhead trout, salmon trout, half-pounder, hardhead, summer salmon
Whitebait smelt	<i>Allosmerus elongatus</i> (Ayres)	Frittura, small fry, perlin
Surf smelt *	<i>Hypomesus pretiosus</i> (Girard)	Surf fish, nightfish, perlin, silver smelt, dayfish
Delta smelt *	<i>Hypomesus transpacificus</i> McAllister	
Night smelt	<i>Spirinchus starksi</i> (Fisk)	Whitebait, sand smelt, nightfish
Longfin smelt	<i>Spirinchus thaleichthys</i> (Ayres)	Sacramento smelt, delta smelt
	Roedel (1962) listed this species as Sacramento smelt. We follow AFS (1970) and use longfin smelt.	
Eulachon	<i>Thaleichthys pacificus</i> (Richardson)	Candlefish, ulchen
Pacific argentine *	<i>Argentina sialis</i> Gilbert	
Robust blacksmelt *	<i>Bathylagus milleri</i> Jordan and Gilbert	Stout blacksmelt
Popeye blacksmelt *	<i>Bathylagus ochotensis</i> Schmidt	Eared blacksmelt
Pacific blacksmelt *	<i>Bathylagus pacificus</i> Gilbert	Slender blacksmelt
Snubnose blacksmelt *	<i>Bathylagus wesethi</i> Bolin	Southern blacksmelt
California smoothtongue *	<i>Leuroglossus stilbius</i> Gilbert	Smoothtongue, northern smoothtongue
Pacific barreleye *	<i>Macropinna microstoma</i> Chapman	Barreleye
	Barreleye in AFS (1970). We follow Miller and Lea (1972) and add the attributive "Pacific".	
Benttooth bristlemouth *	<i>Cyclothone acclinidens</i> Garman	
Bigeye lightfish *	<i>Danaphos oculatus</i> (Garman)	

Slender hatchetfish*	<i>Argyropelecus affinis</i> Garman	
Spurred hatchetfish*	<i>Argyropelecus hemigymnus</i> Cocco	
Silver hatchetfish*	<i>Argyropelecus lychnus</i> Garman	Silvery hatchfish
Silvery hatchetfish*	<i>Argyropelecus sladeni</i> Regan	
Highfin dragonfish*	<i>Bathophilus flemingi</i> Aron and McCrery	
Longfin dragonfish*	<i>Tactostoma macropus</i> Bolin	Arrow dragonfish
Pacific viperfish*	<i>Chauliodus macouni</i> Bean	Fanged viperfish
California lizardfish	<i>Synodus lucioceps</i> (Ayres)	Candlefish, lizardfish
Slender barracudina*	<i>Lestidium ringens</i> (Jordan and Gilbert)	
Longnose lancetfish	<i>Alepisaurus ferox</i> Lowe	Handsaw fish, Pacific lancetfish, wolffish, subotka
	Pacific lancetfish, <i>Alepisaurus richardsoni</i> , listed by Roedel (1962) is now considered synonymous with <i>A. ferox</i> .	
Daggertooth*	<i>Anotopterus pharao</i> Zugmayer	
Northern pearleye*	<i>Benthalbella dentata</i> (Chapman)	Pearleye
California headlightfish*	<i>Diaphus theta</i> Eigenmann and Eigenmann	Theta lanternfish, whitespotted lanternfish, headlightfish
Broadfin lampfish*	<i>Lampanyctus ritteri</i> Gilbert	Broadfin lanternfish
California flashlightfish*	<i>Protomyctophum crockeri</i> (Bolin)	Flashlightfish
Northern lampfish*	<i>Stenobranchius leucopsarus</i> (Eigenmann and Eigenmann)	Smallfin lanternfish
California lanternfish*	<i>Symbolophorus californiensis</i> (Eigenmann and Eigenmann)	
Blue lanternfish*	<i>Tarlonbeania crenularis</i> (Jordan and Gilbert)	
Mexican lampfish*	<i>Triphoturus mexicanus</i> (Gilbert)	
Chihuil*	<i>Bagre panamensis</i> (Gill)	
Specklefin midshipman	<i>Porichthys myriaster</i> Hubbs and Schultz	Slim midshipman, bullhead, singing fish, toad fish
Plainfin midshipman	<i>Porichthys notatus</i> Girard	Northern midshipman, bullhead, singing fish, toad fish, grunter

We designate these more descriptive names as proposed by Roedel (1962).

Designated common name

Lined clingfish*
 Northern clingfish*
 Bearded clingfish*
 California clingfish*
 Southern clingfish*
 Slender clingfish*
 Kelp clingfish*
 Roughjaw frogfish*
 Spotted batfish*
 Warty seadevil*
 Finescale codling*

 Hundred-fathom codling*
 Pacific cod
 Pacific tomcod*
 Walleye pollock*

 Pacific hake

 Spotted cusk-eel*
 Basketweave cusk-eel*
 Red brotula*
 Bigfin eelpout*
 Twoline eelpout*

Scientific name

Gobiesox eugrammus Briggs
Gobiesox maeandricus (Girard)
Gobiesox papillifer Gilbert
Gobiesox rhessodon Smith
Rimicola dimorpha Briggs
Rimicola eigenmanni (Gilbert)
Rimicola muscarum (Meek and Pierson)
Antennarius avalonis Jordan and Starks
Zalieutes elator (Jordan and Gilbert)
Cryptopsaras couesii Gill
Antimora microlepis Bean

Physiculus rastrelliger Gilbert
Gadus macrocephalus Tilesius
Microgadus proximus (Girard)
Theragra chalcogramma (Pallas)

Merluccius products (Ayres)

Chilara taylori (Girard)
Otophidium scrippsi Hubbs
Brosomphycis marginata (Ayres)
Aprodon corteziamus Gilbert
Bothrocara brunneum (Bean)

Other common names

Common clingfish, flathead clingfish, suckfish

Frogfish, California frogfish
 Batfish
 Triplewart seadevil
 Finescale flatnose codling, Pacific flatnose, longfin cod

Plain cod, gray cod, true cod, Alaska cod, cod
 Tomcod, piciata, California tomcod
 Whiting, bigeye, Alaska pollock, southern walleye pollock
 Hake, white fish, haddock, butterfish, mellusa, meluzette, California hake, ocean whitefish, popeye, silver hake

California cusk-eel*
 Purple brotula*
 Smoothgum eelpout

Oligopus diagrammus (He)

Soft eelpout *	<i>Bothrocara molle</i> Bean	Pighead eelpout
Flatcheek eelpout *	<i>Embryx crotalina</i> (Gilbert)	Snakehead eelpout
Blackmouth eelpout *	<i>Lycodapus fierasfer</i> Gilbert	Pearly eelpout
Pallid eelpout *	<i>Lycodapus mandibularis</i> Gilbert	Pale eelpout
Black eelpout *	<i>Lycodes diapterus</i> Gilbert	Blackfinned eelpout
Blackbelly eelpout *	<i>Lycodopsis pacifica</i> (Collett)	
Bearded eelpout *	<i>Lycinema barbatum</i> Gilbert	
Midwater eelpout *	<i>Melanostigma pammelas</i> Gilbert	Pacific softpout, black eelpout
Pacific grenadier *	<i>Coryphaenoides acrolepis</i> (Bean)	Pacific rattail, roughscale rattail, roughscale grenadier
California grenadier *	<i>Nezumia stelgidolepis</i> (Gilbert)	California rattail
	We apply the AFS (1970) common family designation to the common name of the species. The term rattail was used by Miller and Lea (1972).	
California flyingfish	<i>Cypselurus californicus</i> (Cooper)	Volator, great flyingfish
Blotchwing flyingfish *	<i>Cypselurus heterurus</i> (Rafinesque)	Single-bearded flyingfish
Sharpchin flyingfish	<i>Fodiator acutus</i> (Valenciennes)	Sharpnose flyingfish
Blackwing flyingfish *	<i>Hirundichthys rondeletii</i> (Valenciennes)	
Ribbon halfbeak *	<i>Euleptorhamphus longirostris</i> (Cuvier)	
Longfin halfbeak *	<i>Hemiramphus saltator</i> Gilbert and Starks	
California halfbeak *	<i>Hyporhamphus rosae</i> (Jordan and Gilbert)	Halfbeak
Silverstripe halfbeak *	<i>Hyporhamphus unifasciatus</i> (Ranzani)	Halfbeak, common halfbeak, escribano, pajarito
	Halfbeak in AFS (1970). We follow Miller and Lea (1972) and add the attributive "silverstripe" since three other halfbeaks occur in California waters.	
California needlefish	<i>Strongylura exilis</i> (Girard)	Garfish, billfish, needlefish, California garfish
Pacific saury	<i>Cololabis saira</i> (Brevoort)	Skipper, garfish, sourbelly, sourfish, saury
California killifish	<i>Fundulus parvipinnis</i> Girard	Killifish
Topsmelt	<i>Atherinops affinis</i> (Ayres)	Bay smelt, rainbow smelt, panzarotto, little smelt, least smelt, silverside, capron, jack, pescadillo
Jacksmelt	<i>Atherinopsis californiensis</i> Girard	Silverside, California smelt, horse smelt, blue smelt, pescado del rey, Peixe rey, Pesce rey
California grunion	<i>Leuresthes tenuis</i> (Ayres)	Smelt, little smelt, least smelt, grunion

Designated common name	Scientific name	Other common names
Crested bigscale *	<i>Poromitra crassiceps</i> (Gunther)	
Twospine bigscale *	<i>Scopelogadus mizolepis</i> (Gilbert)	
Mirror dory *	<i>Zenopsis nebulosa</i> (Temminck and Schlegel)	
Oxeye oreo *	<i>Alloctytus verrucosus</i> (Gilchrist)	Coster dory, oreo
Opah	<i>Lampris regius</i> (Bonnaterre)	Poisson lune, moonfish
Highbrow crestfish *	<i>Lophotus cristatus</i> Johnson	Crestfish, oarfish, sea serpent
Polkadot ribbonfish	<i>Desmodema polysticta</i> (Ogilby)	
King-of-the-salmon	<i>Trachipterus altivelis</i> Kner	California ribbonfish
Tapertail ribbonfish *	<i>Trachipterus fukuzakii</i> Fitch	
Scalloped ribbonfish *	<i>Zu cristatus</i> (Bonelli)	
Oarfish	<i>Regalecus glesne</i> (Ascanius)	King-of-the-herrings
Tubesnout	<i>Aulorhynchus flavidus</i> Gill	
Threespine stickleback	<i>Gasterosteus aculeatus</i> Linnaeus	Common stickleback
Slender snipefish *	<i>Macrorhamphosus gracilis</i> (Lowe)	Snipefish
Pacific seahorse *	<i>Hippocampus ingens</i> Girard	Caballito del mar
Snubnose pipefish *	<i>Syngnathus arctus</i> (Jenkins and Evermann)	
Barred pipefish *	<i>Syngnathus auliscus</i> (Swain)	
Kelp pipefish	<i>Syngnathus californiensis</i> Storer	Great pipefish
Bay pipefish	<i>Syngnathus leptorhynchus</i> Girard	
	This species is conspecific with <i>Syngnathus griseolineatus</i> listed by Roedel (1962).	

Sculpin	Scorpaena guttata Girard	California scorpionfish, spotted scorpionfish, scorpionfish, scorpion, bullhead, scorpene
	AFS (1970) uses "California scorpionfish." We follow Roedel (1962) and designate the name "sculpin" since it is so firmly implanted in the vernacular of both sport and commercial fishermen.	
Rainbow scorpionfish *	Scorpaenodes xyris (Jordan and Gilbert)	
	Members of the genus Sebastes have been referred to as rockfish or rockcod since the mid-1800's. We feel rockfish is the more appropriate name so we follow AFS (1970) and Roedel (1962). We do not list the term rockcod as another common name; however all the species in this genus have been reference to as rockcod.	
Rougeye rockfish	Sebastes aleutianus (Jordan and Evermann)	Blackthroated rockfish, blacktip rockfish
Pacific ocean perch	Sebastes alutus (Gilbert)	Longjaw rockfish, rose fish
Kelp rockfish	Sebastes atrovirens (Jordan and Gilbert)	Gopher rockfish, garrupa, green garrupa
Brown rockfish	Sebastes auriculatus Girard	Blina, sand bass
Aurora rockfish	Sebastes aurora (Gilbert)	
Redbanded rockfish *	Sebastes babcocki (Thompson)	
Shorthead rockfish *	Sebastes borealis Barsukov	
Silvergray rockfish	Sebastes brevispinis (Bean)	Shortspine rockfish
Gopher rockfish	Sebastes carnatus (Jordan and Gilbert)	Flesh-colored rockfish, flesh-colored garrupa, butterball, butter bass
Copper rockfish	Sebastes caurinus Richardson	Whitebelly rockfish, white gopher, barriga, gopher, blanca, palermotano, northern rockfish
Greenspotted rockfish	Sebastes chlorostictus (Jordan and Gilbert)	Chucklehead, Santa Maria, red rock cod, bolina, cernie, pesce vermiglia, chinafish
Black-and-yellow rockfish	Sebastes chrysomelas (Jordan and Gilbert)	Gopher rockfish, black and yellow garrupa, cifulatano, sand bass
Starry rockfish	Sebastes constellatus (Jordan and Gilbert)	Spotted corsair, spotted rockfish, chinafish, red rock cod, scacciaiale
Darkblotched rockfish	Sebastes crameri (Jordan)	Blackmouth rockfish, blackblotched rockfish
Calico rockfish	Sebastes dalli (Eigenmann and Beeson)	Pretty rock cod, brown rockfish
Splitnose rockfish	Sebastes diploproa (Gilbert)	Rosefish, lobe-jawed rockfish
Greenstriped rockfish	Sebastes elongatus Ayres	Red rock cod, strawberry rockfish, serena, reina, poinsetta, striped rockfish
Swordspine rockfish *	Sebastes ensifer Chen	Flyfish
	This species was listed as Sebastodes rhodochloris by Roedel (1962). Chen (1971) synonymized S. rhodochloris with S. helvomaculatus and described S. ensifer.	
Widow rockfish	Sebastes entomelas (Jordan and Gilbert)	Red snapper, † viuva, widowfish, beccafico
Pink rockfish	Sebastes eos (Eigenmann and Eigenmann)	Chucklehead, dawn rockfish, Santa Maria
Yellowtail rockfish	Sebastes flavivittatus (Ayres)	Red snapper, † rock cod, yellowtail, gialota, giola, cherne, green snapper
Bronzespotted rockfish	Sebastes gilli (Eigenmann)	Catalina, Catalina bass, Catalina salmon
Chilipepper	Sebastes goodei (Eigenmann and Eigenmann)	Red snapper, † red rock cod, johnnies, johnny cod
Rosethorn rockfish	Sebastes helvomaculatus Ayres	Deep-water scacciaiale, deep-water scratch-tail, orange-red rockfish
Squarespot rockfish	Sebastes hopkinsi (Cramer)	Smallmouth rockfish, widow rock cod
Shortbelly rockfish	Sebastes jordani (Gilbert)	Slim rockfish, slender rockfish, steamer rockfish
Freckled rockfish	Sebastes lentiginosus Chen	
Cowcod	Sebastes levis (Eigenmann and Eigenmann)	Red snapper, † cow rockfish, roosterfish, gallo, chefra, cowfish, cow
	Roedel (1962) and AFS assigned the common name cow rockfish to this species; however, we follow Miller and Lea (1972) since the term cowcod is so firmly implanted in the vernacular of both sport and commercial fishermen.	
Mexican rockfish	Sebastes macdonaldi (Eigenmann and Beeson)	Black-and-red rockfish, dark-chili, coral-red rockfish

† These species of rockfish have been marketed in the filleted condition as red snapper since the late 1800s. Since the true red snapper, *Lutjanus campechanus* (Poey), belongs to the family Lutjanidae which is not represented on the Pacific coast of the United States, and since the name "red snapper" is firmly implanted in the vernacular of the commercial fishermen, we suggest the term "Pacific red snapper" be used when marketing these species in a filleted condition. On March 8, 1974, the California Fish and Game Commission adopted Section 103, Title 14, California Administrative Code, which states the term Pacific red snapper may be used as an alternate common name for these species.

Designated common name	Scientific name	Other common names
Quillback rockfish	<i>Sebastes maliger</i> (Jordan and Gilbert)	Orange-spotted rockfish, yellow-backed rockfish, brown rockfish, speckled rockfish
Black rockfish	<i>Sebastes melanops</i> (Girard)	Red snapper, † black snapper, black bass, bass rockfish, nero, cherna, pesce pretre, gray rockfish, black sea bass, sea bass, black rock
Blackgill rockfish	<i>Sebastes melanostomus</i> (Eigenmann and Eigenmann)	Blackmouth rockfish, deepsea rockfish
Vermilion rockfish	<i>Sebastes miniatus</i> (Jordan and Gilbert)	Red snapper, † red rock cod, rasher, borracho, genuine red, salmon grouper, borrachon
Blue rockfish	<i>Sebastes mystinus</i> (Jordan and Gilbert)	Bluefish, blue perch, priestfish, black rockfish, black bass, nervi, neri, black snapper
China rockfish	<i>Sebastes nebulosus</i> Ayres	Cefalutano, black and yellow rockfish, yellow-spotted rockfish, cerod, yellow rockfish, gopher, pelican, yellowstripe rockfish, speckled garrupa, chinafish
Tiger rockfish	<i>Sebastes nigrocinctus</i> Ayres	Banded rockfish, blackbanded rockfish, barred rockfish
Speckled rockfish	<i>Sebastes ovalis</i> (Ayres)	Red snapper, † widow rockfish, zipola, brownfish, beccafico, viuva
Bocaccio	<i>Sebastes paucispinis</i> Ayres	Red snapper †, rock cod, grouper, salmon grouper, tomcod (young), boccac, merou
Chameleon rockfish *	<i>Sebastes phillipsi</i> (Fitch)	
Canary rockfish	<i>Sebastes pinniger</i> (Gill)	Red snapper, † orange rockfish, codalarga, yellow snapper, filione, fantail, red rock cod, canary, bosco
Redstripe rockfish	<i>Sebastes proriger</i> (Jordan and Gilbert)	Red rockfish of Alaska, little red rock cod
Grass rockfish	<i>Sebastes rastrelliger</i> (Jordan and Gilbert)	Kelp rockfish, scomoda, green garrupa, green rockfish, lingcod, schmo
Yellowmouth rockfish *	<i>Sebastes reedi</i> (Westrheim and Tsuyuki)	
Rosy rockfish	<i>Sebastes rosaceus</i> Girard	Corsair, dude, scacciatale, scratch-tail
Greenblotched rockfish *	<i>Sebastes rosenblatti</i> Chen	
Yelloweye rockfish	<i>Sebastes ruberrimus</i> (Cramer)	Red snapper, † turkey-red rockfish, potbelly, drum, tambor, vecchia, red rock cod, yellowbelly, rasphead, golden eye, turkey rock
Flag rockfish	<i>Sebastes rubrivinctus</i> (Jordan and Gilbert)	Spanish flag, barberpole, Hollywood, convict fish, shoflies, tiger, barberpole snapper
Dwarf-red rockfish *	<i>Sebastes rufinanus</i> Lea and Fitch	
Bank rockfish *	<i>Sebastes rufus</i> (Eigenmann and Eigenmann)	Red snapper †
Stripetail rockfish	<i>Sebastes saxicola</i> (Gilbert)	Popeye rockfish, bigeye rockfish, oliveback rockfish
Halfbanded rockfish	<i>Sebastes semicinctus</i> (Gilbert)	Inspector
Olive rockfish	<i>Sebastes serranoides</i> (Eigenmann and Eigenmann)	Red snapper, † kelp yellowtail, kelp salmon, bass rockfish, sugar bass, sugarfish
Treefish	<i>Sebastes serriiceps</i> (Jordan and Gilbert)	Convictfish, barberpole, garrupa
Pinkrose rockfish *	<i>Sebastes simulator</i> Chen	
Honeycomb rockfish	<i>Sebastes umbrosus</i> (Jordan and Gilbert)	Shaded rockfish, dusky rockfish
Whitebelly rockfish	<i>Sebastes vexillaris</i> (Jordan and Gilbert)	Sailfin rockfish, barriga blanca, Palermotana
Pygmy rockfish	<i>Sebastes wilsoni</i> (Gilbert)	Wilson's rockfish, slender rockfish, dwarf rockfish
Sharpchin rockfish	<i>Sebastes zacentrus</i> (Gilbert)	Bigeyed rockfish
Shortspine thornyhead	<i>Sebastolobus alascanus</i> Bean	Shortspine channel rockfish, idiot, hooligan, thornhead, lobe-finned rockfish, spiny-cheeked rockfish, bonehead, scorpion, fagiano, slim thornhead, gurnard, gurnet, channel cod
Longspine thornyhead	<i>Sebastolobus altivelis</i> Gilbert	Longspine channel rockfish, idiot, hooligan, thornhead, lobe-finned rockfish, spiny-cheeked rockfish, bonehead, scorpion, anglefin rockfish, deep-water rockfish, crimson thornhead

Thornyhead replaces channel rockfish since this name is more appropriate for a species that is not confined to channels. We follow AFS (1970) in this change.

Splitnose searobin *	Bellator xenisma (Jordan and Bollman)	Smoothhead searobin
Lumptail searobin	Prionotus stephanophrys Lockington	California seatrout, greenling, seatrout, rock trout, kelp, kelp greenling, rockfish, bluefish, spotted rock trout, bodieron, boregat, greenling, kelp trout, kelp cod
Kelp greenling	Hexagrammos decagrammus (Pallas)	
Whitespotted greenling	Hexagrammos stelleri Tilesius	Boregata, starling, Tommy cod, atka mackerel, sea trout, greenling
Rock greenling	Hexagrammos superciliosus (Pallas)	Fringed greenling, Pacific red rock trout, red greenling, sea trout, kelp cod
Lingcod	Ophiodon elongatus Girard	Pacific cultus, cultus cod, ling, greenling, cod, blue cod, bluefish, white cod, buffalo cod, leopard cod, codfish, green cod, bocalao, card, testoni, cultus, skilfish, buffalo
Painted greenling	Oxylebius pictus Gill	Convict fish, kelp fish
Atka-mackerel *	Pleurogrammus monoptyerygius (Pallas)	Atka greenling, atkafish, yellowfish
Sablefish	Anoplopoma fimbria (Pallas)	‡ Butterfish, coalfish, candlefish, skilfish, blackcod, coal cod, blue-cod, bluefish, deepsea trout, black candlefish, skill
		Aburaboza, fat priest
Skilfish	Erilepis zonifer (Lockington)	
Shortspine combfish	Zaniolepis frenata Eigenmann and Eigenmann	
Longspine combfish	Zaniolepis latipinnis Girard	Longspine greenling
Coralline sculpin *	Artemius corallinus (Hubbs)	
Roughcheek sculpin *	Artemius creaseri (Hubbs)	
Padded sculpin *	Artemius fenestralis Jordan and Gilbert	
Scalyhead sculpin *	Artemius harringtoni Starks	Plumose sculpin *
Smoothhead sculpin *	Artemius lateralis (Girard)	Roundnosed sculpin
Puget Sound sculpin *	Artemius meanyi (Jordan and Starks)	
Bonyhead sculpin *	Artemius notospilotus Girard	Bonehead sculpin
Rosylip sculpin	Ascelichthys rhodorus Jordan and Gilbert	Rubber sculpin
Silverspotted sculpin *	Blepsias cirrhosus (Pallas)	Silverspot, nee-kaio-kaiung
Roughback sculpin *	Chitonotus pugetensis (Steindachner)	
Sharpnose sculpin *	Clinocottus acuticeps (Gilbert)	
Wooly sculpin *	Clinocottus analis (Girard)	
Calico sculpin *	Clinocottus embryum (Jordan and Starks)	Mossy sculpin
Mosshead sculpin *	Clinocottus globiceps (Girard)	Globeheaded sculpin
Bald sculpin *	Clinocottus recalvus (Greeley)	Tide pool johnny

‡ Filleted sablefish have been marketed as "butterfish" in California for many years. On March 8, 1974, the California Fish and Game Commission adopted Section 103, Title 14, California Administrative Code, which states the term butterfish may be used as an alternate for the designated name, sablefish.

Designated common name	Scientific name	Other common names
Buffalo sculpin *	<i>Enophrys bison</i> (Girard)	
Bull sculpin	<i>Enophrys taurina</i> Gilbert	
Red Irish lord	<i>Hemilepidotus hemilepidotus</i> (Tilesius)	Spotted Irish lord, bullhead, red sculpin
Brown Irish lord	<i>Hemilepidotus spinosus</i> (Ayres)	Reef Irish lord
Dusky sculpin *	<i>Icelinus burchami</i> Evermann and Goldsborough	
Pithead sculpin *	<i>Icelinus cavifrons</i> Gilbert	
Threadfin sculpin *	<i>Icelinus filamentosus</i> Gilbert	Filamented sculpin
Fringed sculpin *	<i>Icelinus fimbriatus</i> Gilbert	
Frogmouth sculpin *	<i>Icelinus oculatus</i> Gilbert	
Yellowchin sculpin *	<i>Icelinus quadriseriatus</i> (Lockington)	
Spotfin sculpin *	<i>Icelinus tenuis</i> Gilbert	Lesser filamented sculpin
Longfin sculpin *	<i>Jordania zonope</i> Starks	Bandeye sculpin
Lavender sculpin *	<i>Leiocottus hirundo</i> Girard	
Pacific staghorn sculpin	<i>Leptocottus armatus</i> Girard	Bullhead, staghorn sculpin, cabezon, buffalo sculpin, smooth cabezon
Sailfin sculpin *	<i>Nautichthys oculofasciatus</i> (Girard)	Johnny, sailfish
Tidepool sculpin *	<i>Oligocottus maculosus</i> Girard	Sculpin, tidepool johnny, johnny
Saddleback sculpin *	<i>Oligocottus rimensis</i> (Greeley)	Prickly sculpin
Rosy sculpin	<i>Oligocottus rubellio</i> (Greeley)	
Fluffy sculpin	<i>Oligocottus snyderi</i> Greeley	
Snubnose sculpin *	<i>Orthonopias triacis</i> Starks and Mann	
Thornback sculpin *	<i>Paricelinus hopliticus</i> Eigenmann and Eigenmann	
Slim sculpin *	<i>Radulinus asprellus</i> Gilbert	Darter sculpin
Darter sculpin *	<i>Radulinus boleoides</i> Gilbert	
Smoothgum sculpin *	<i>Radulinus vinculus</i> Bolin	
Grunt sculpin *	<i>Rhamphocottus richardsonii</i> Gunther	Gruntfish
Cabezon	<i>Scorpaenichthys marmoratus</i> (Ayres)	Bullhead, blue cod, sculpin, giant marbled sculpin, giant sculpin, marble sculpin, bull cod, salpa, scorpion, biggyhead, scaleless sculpin
Manacled sculpin *	<i>Synchirus gilli</i> Bean *	
Flabby sculpin	<i>Zesticelus profundorum</i> (Gilbert)	
Northern spearnose *	<i>Agonopsis emmelane</i> (Jordan and Starks)	Northern spearnose poacher, windowntail poacher, mottled poacher
	Northern spearnose poacher in AFS (1970). We follow Miller and Lea (1972) and drop the term poacher since it only generates confusion. The term spearnose refers to the two spines on the rostral plate at the tip of the snout which project forward.	
Southern spearnose *	<i>Agonopsis sterletus</i> (Gilbert)	Southern spearnose poacher, snubnose poacher
	Southern spearnose poacher in AFS (1970). See comments under northern spearnose.	
Sturgeon poacher *	<i>Agonus acipenserinus</i> Tilesius	Sturgeonlike seapoacher, common alligatorfish
Smooth alligatorfish *	<i>Anoplagonus inermis</i> (Gunther)	Smooth seapoacher, smooth poacher
Spinycheek starnose *	<i>Asterotheca infraspinata</i> (Gilbert)	
Bigeye starnose *	<i>Asterotheca pentacantha</i> (Gilbert)	Bigeye poacher
	Bigeye poacher in AFS (1970). We follow Miller and Lea (1972) since starnose refers to the three upright rostral spines at the tip of the snout, and is a descriptive term.	
Blackfin starnose *	<i>Bathyagonus nigripinnis</i> Gilbert	Blackfin poacher
	Blackfin poacher in AFS (1970). See comments under bigeye poacher.	
Rockhead *	<i>Bothragonus swanii</i> (Steindachner)	Deep-pitted seapoacher
Beardless spearnose *	<i>Ganoideus vulsus</i> (Jordan and Gilbert)	Beardless poacher
	Beardless poacher in AFS (1970). See comments under northern spearnose.	
Warty poacher *	<i>Ocella verrucosa</i> (Lockington)	Warty seapoacher

Pygmy poacher*	Odontopyxis trispinosa Lockington	Pithead poacher
Tubenose poacher*	Pallasina barbata (Steindachner)	Tubesnout poacher
Pricklebreast poacher*	Stellerina xyosterna (Jordan and Gilbert)	
Blackedge poacher	Xeneretmus latifrons (Gilbert)	Blacktip poacher
	Blacktip poacher in AFS (1970). We follow Miller and Lea (1972) and use the more descriptive attributive "blackedge."	
	Xeneretmus leiops Gilbert	Cutfin poacher
Smootherye poacher*	Xeneretmus ritteri Gilbert	Stripefin poacher, spiny poacher
Flagfin poacher	Stripefin poacher in AFS (1970). We feel the attributive "flagfin" more appropriate and follow Miller and Lea (1972).	
	Xeneretmus triacanthus (Gilbert)	Bluespotted starnose
Bluespotted poacher*	Careproctus melanurus Gilbert	Blacktailed liparid
Blacktail snailfish*	Liparis florum (Jordan and Starks)	Shore liparid
Tidepool snailfish*	Liparis fucensis Gilbert	
Slipskin snailfish*	Liparis mucosus Ayres	
Slimy snailfish*	Liparis pulchellus Ayres	Shorttail snailfish
Showy snailfish*	Liparis rutteri (Gilbert and Snyder)	Ringtailed liparid, bandtail snailfish
Ringtail snailfish*	Epinephelus analogus Gill	Cabrilla pinto
Spotted cabrilla*	Epinephelus niveatus (Valenciennes)	
Snowy grouper*	Hemanthias peruanus (Steindachner)	Rose threadfin bass
Splittail bass*	Mycteroperca jordani (Jenkins and Evermann)	Cabrilla de astillero, baja, baya, garuppe de baya
Gulf grouper	Mycteroperca xenarcha Jordan	Spikedtailed grouper, garuppa, pinto broomtail, spotted broomtail
Broomtail grouper		Rock bass, sand bass, cabrilla, calico bass, bull bass, kelp salmon, lockee cod, California kelp bass
	Paralabrax clathratus (Girard)	Spotted bass, rock bass, cabrilla, red spotted rock bass, spotted, spotted cabrilla, pinta cabrilla
Kelp bass		Rock bass, Johnny verde, kelp bass, sand bass, ground bass, sugar bass, cabrilla, California sand bass, California rock bass
	Paralabrax maculatofasciatus (Steindachner)	
Spotted sand bass		
	Paralabrax nebulifer (Girard)	
Barred sand bass		
	We follow AFS (1970) and add the modifier to contrast with spotted sand bass.	
	Roccus saxatilis (Walbaum)	Striper, streaked bass, squidhound, rock, rock bass, rock fish
Striped bass		
	Stereolepis gigas Ayres	Black sea bass, jewfish, giant bass, California jewfish, California black sea bass
Giant sea bass		Catalufa
	Pseudopriacanthus serrula (Gilbert)	
Popeye catalufa*	Apogon guadalupensis (Osburn and Nichols)	
Guadalupe cardinalfish*	Caulolatilus princeps (Jenyns)	Blanquillo, whitefish, blanka
Ocean whitefish		

Designated common name	Scientific name	Other common names
Sharksucker*	<i>Echeneis naucrates</i> Linnaeus	Pega, pegador, sucking fish, white tail remora, Indian remora
Slender suckerfish*	<i>Phtheirichthys lineatus</i> (Menzies)	
Whalesucker*	<i>Remilegia australis</i> (Bennett)	
Gray marlinsucker*	<i>Remora brachyptera</i> (Lowe)	Spearfish remora, swordfish sucker
	Spearfish remora in AFS (1970). We follow Miller and Lea (1972) and reserve the term remora for the species <i>Remora remora</i> .	
Remora	<i>Remora remora</i> (Linnaeus)	Sucker, pega, common remora
White suckerfish*	<i>Remorina albescens</i> (Temminck and Schlegel)	White marlinsucker
Hardfin marlinsucker*	<i>Rhombochirus osteochir</i> (Cuvier)	Spearfish sucker, marlinsucker
	Marlinsucker in AFS (1970). We follow Miller and Lea (1972) and add the descriptive attributive "hard-fin."	
Green jack	<i>Caranx caballus</i> Gunther	Common green jack, cocinero, jurel, cocinero dorado
Crevalle jack*	<i>Caranx hippos</i> (Linnaeus)	Crevalle, toro, cavally, jiguagua, horse crevalle, jack
Pacific bumper*	<i>Chloroscombrus orqueta</i> Jordan and Gilbert	Orqueta, Xurel de Castilla, yellowtail jack
Mexican scad	<i>Decapterus hypodus</i> Gill	Mackerel scad, scad, round robin, cigarfish, antonino, quiaquia
Pilotfish	<i>Naucrates ductor</i> (Linnaeus)	Romero
Leatherjacket*	<i>Oligoplites saurus</i> (Bloch and Schneider)	Skipjack, jurel, monda, yellowtailed leatherjacket
Pacific amberjack	<i>Seriola colburni</i> Evermann and Clark	Bull yellowtail, turel, cohalla, toro, turel de Castilla
Yellowtail	<i>Seriola dorsalis</i> (Gill)	California yellowtail, amberjack, amberfish, white salmon, cavasina, jack
	We follow AFS (1970) and drop attributive "California" as listed by Roedel (1962) since this species occurs from Chile to southern Washington.	
Palo pompano*	<i>Trachinotus paitensis</i> Cuvier	Pompanito
Gafftopsail pompano*	<i>Trachinotus rhodopus</i> (Gill)	Horse mackerel, spanish mackerel, saurel, agii, jackfish, mackereljack, California horse mackerel, mackerel jack, Pacific jack mackerel
Jack mackerel	<i>Trachurus symmetricus</i> (Ayres)	
Cottonmouth jack*	<i>Uraspis secunda</i> (Poey)	Horsefish, moonfish, jorobado, bluntnose shiner, pugnosed shiner
Pacific moonfish*	<i>Vomer declivifrons</i> Meek and Hildebrand	Papagallo, gallo, pez de gallo
Roosterfish	<i>Nematistius pectoralis</i> Gill	Common dolphinfish, mahi-mahi, dolphin, dorado, dourade, common dolphin, small dolphin
Dolphinfish	<i>Coryphaena hippurus</i> Linnaeus	
	We prefer "dolphinfish" to AFS's "dolphin" since there is otherwise possible confusion as to whether one is speaking of the fish or the mammal.	
Pacific pomfret	<i>Brama japonica</i> Hilgendorf	Pomfret, smallscaled pomfret, castagnole, rondanin
	Roedel (1962) listed Pomfret, <i>Brama rayi</i> ; however, this species subsequently has been synonymized with <i>Brama brama</i> , an Atlantic species, and the Pacific pomfret has been recognized as a distinct species.	
Fanfish*	<i>Pteraclis aesticola</i> (Jordan and Synder)	Benten-uwo
Bigscale pomfret*	<i>Taractichthys steindachneri</i> (Doderlein)	Manzai-uwo, ebosh idai, hiredjiro-manzaiuo
Silver mojarra*	<i>Eucinostomus argenteus</i> Baird and Girard	Spotfin mojarra
	Spotfin mojarra in AFS (1970). We follow Miller and Lea (1972) since the dorsal fin of the Pacific flagfin mojarra has a black tip above a silver spot on the dorsal fin while the silver mojarra has a clear fin with fine speckling.	
Pacific flagfin mojarra*	<i>Eucinostomus gracilis</i> (Gill)	

Sargo	Anisotremus davidsonii (Steindachner)	Perch, blue bass, black croaker, china croaker, California sargo, sargo raiado
Salema	Xenistius californiensis (Steindachner)	Bigeye bass, California salema, striped bass
Pacific porgy	Calamus brachysomus (Lockington)	Mojarra garabata, porgy
Bairdiella	Bairdiella icistia (Jordan and Gilbert) This is a Gulf of California species introduced and established in the Salton Sea.	Gulf croaker
Black croaker	Cheilotrema saturnum (Girard)	Chinese croaker, black perch, blue bass, black bass, surf fish, red roncadador, chinafin croaker
White seabass	Cynoscion nobilis (Ayres)	California white seabass, young sometimes called sea trout, weakfish, king croaker, white croaker
Shortfin corvina	Cynoscion parvipinnis Ayres	Caravina, corvina, shortfin seabass
Orangemouth corvina	Cynoscion xanthulus Jordan and Gilbert This is a Gulf of California species introduced and established in the Salton Sea.	Yellowmouth, corvina de las aletas amarillas
White croaker	Genyonemus lineatus (Ayres)	Tomcod, kingfish, shiner, chenfish, herring, Pasadena trout, carbinette, carbinette, roncadador, tommy, cognard, little bass, little roncadador, tommy croaker
California corbina	Menticirrhus undulatus (Girard)	California whiting, corvina, surf fish, bagre, sucker, corbina
Spotfin croaker	Roncadador stearmsii (Steindachner)	Spot, golden croaker, surf fish, roncadador
Queenfish	Seriphus politus Ayres	Kingfish, tomcod, sea trout, shiner, herring, white croaker, herring croaker
Yellowfin croaker	Umbrina roncadador Jordan and Gilbert	Surf fish, yellowfinned roncadador, Catalina croaker, yellowtailed croaker, golden croaker
Mexican goatfish*	Mulloidichthys dentatus (Gill)	Goatfish
Opaleye	Girella nigricans (Ayres)	Green perch, black perch, blue-eyed perch, bluefish, Catalina perch, button perch, greenfish, blue bass, blue-eye, blue perch, Jack Benny, California opaleye
Halfmoon	Medialuna californiensis (Steindachner)	Blue perch, blue bass, medialuna, Catalina perch, California half-moon, Catalina blue perch, black perch
Zebra perch	Hermosilla azurea Jenkins and Evermann	Convict fish, perch
Blue-bronze chub*	Kyphosus analogus (Gill)	Salmena
Pacific spadefish*	Chaetodipterus zonatus (Girard)	Spadefish

Designated common name	Scientific name	Other common names
Scythemarked butterflyfish*	<i>Chaetodon falcifer</i> Hubbs and Rehnitzner	Scythe butterflyfish
	Scythe butterflyfish in AFS (1970). We follow Miller and Lea (1972) since scythemarked is more descriptive of the fish.	
Three-banded butterflyfish*	<i>Chaetodon humeralis</i> Gunther	Doll fish, muñeca
Pelagic armorhead*	<i>Pentaceros richardsoni</i> Smith	Boarfish
Barred surfperch	<i>Amphistichus argenteus</i> Agassiz	Barred perch, silver perch, surf perch, sand perch, silver surf fish
Calico surfperch	<i>Amphistichus koelzi</i> (Hubbs)	California porgie, humpback perch
Redtail surfperch	<i>Amphistichus rhodoterus</i> (Agassiz)	Rosy surf fish, redbtail seaperch, porgy, Oregon porgie
Kelp surfperch†	<i>Brachyistius frenatus</i> Gill	Kelp perch, kelp seaperch, brown seaperch
Shiner surfperch†	<i>Cymatogaster aggregata</i> Gibbons	Shiner perch, shiner, sparada, minny, shiner seaperch, yellow shiner, bay perch, seven-eleven perch
Island surfperch†	<i>Cymatogaster gracilis</i> Tarp	Island seaperch
Pile surfperch†	<i>Damalichthys vacca</i> Girard	Pile perch, forktail perch, porgee, white perch, splittail perch, pile seaperch, dusky seaperch, porgee, silver perch
Black surfperch†	<i>Embiotoca jacksoni</i> Agassiz	Black perch, common surf fish, bay perch, porgy, blue perch, bay blackperch
Striped surfperch†	<i>Embiotoca lateralis</i> Agassiz	Striped seaperch, striped perch, blue perch, rainbow perch, squawfish, crugnoli, blue surf fish, striped surf fish, blue seaperch
Spotfin surfperch	<i>Hyperprosopon anale</i> Agassiz	
Walleye surfperch	<i>Hyperprosopon argenteum</i> Gibbons	Surf fish, silver perch, walleye surf fish, walleye seaperch, china pompano, white perch
Silver surfperch	<i>Hyperprosopon ellipticum</i> (Gibbons)	Silver perch, shiner
Rainbow surfperch†	<i>Hypsurus caryi</i> (Agassiz)	Rainbow seaperch, rainbow perch, striped perch, bugara, moharra
Reef surfperch†	<i>Micrometrus aurora</i> (Jordan and Gilbert)	Reef perch
Dwarf surfperch†	<i>Micrometrus minimus</i> (Gibbons)	Dwarf perch, shiner
Sharpnose surfperch†	<i>Phanerodon atripes</i> (Jordan and Gilbert)	Sharpnose seaperch
White surfperch†	<i>Phanerodon furcatus</i> Girard	White seaperch, Pacific white perch, split-tail perch, forktail perch, white surf fish, white perch, shiner
Rubberlip surfperch†	<i>Rhacochilus toxotes</i> (Agassiz)	Rubberlip seaperch, rubberlip perch, porgee, alfione, pile perch, niggerlip, sprat, liverlip, buttermouth
Pink surfperch†	<i>Zalembeius rosaceus</i> (Jordan and Gilbert)	Pink seaperch
Blacksmith	<i>Chromis punctipinnis</i> (Cooper)	Perch, blue perch, kelp perch, rock bass, black perch
Garibaldi	<i>Hypsypops rubicundus</i> (Girard)	Ocean goldfish, garibaldi perch, golden perch
Striped mullet	<i>Mugil cephalus</i> Linnaeus	Mullet
California barracuda	<i>Sphyaena argentea</i> Girard	Pacific barracuda, scoots, scooters, snake, barracuda, log barracuda, barry
	Listed as Pacific barracuda in AFS (1970). The occurrence of this species is primarily restricted to the Californias (Alta and Baja) north of Cape San Lucas, with another species occurring in the Gulf of California. We follow Roedel (1962) and use the attributive "California."	

† A rule-of-thumb was applied in 1953 in naming embiotocids which called for using "surfperch" for those species which typically are surf dwellers, "seaperch" for those associated with the ocean but not primarily with the surf, and "perch" alone for those of varying habitat. This has led to some confusion at times, so we follow Miller and Lea (1972) and apply the term "surfperch" to all members of the family except the tuleperch, *Hysteroecarpus traskii*, the only freshwater representative of the group. Those species names followed by a † were listed in Roedel (1962) and AFS (1970) following the above rule of thumb.

Blue bobo*	<i>Polydactylus approximans</i> (Lay and Bennett)	Blue threadfin, Pacific threadfin, threadfin
Yellow bobo*	<i>Polydactylus opercularis</i> (Linnaeus)	Yellow threadfin
Rock wrasse	<i>Halichoeres semicinctus</i> (Ayres)	California wrasse, parrot fish, wrasse
Señorita	<i>Oxyjulis californica</i> (Gunther)	Kelpfish, pescerey, kelp wrasse, butterfish
California sheephead	<i>Pimelometopon pulchrum</i> (Ayres)	Sheephead, California redfish, fathead, humpy, redfish
Pacific sandfish*	<i>Trichodon trichodon</i> (Tilesius)	Sandfish
Smooth ronquil*	<i>Rathbunella hypoplecta</i> (Gilbert)	
Northern ronquil*	<i>Ronquilus jordani</i> (Gilbert)	Ronquil
Smooth stargazer*	<i>Kathetostoma avertuncus</i> Jordan and Bollman	
Bay blenny	<i>Hypsoblennius gentilis</i> (Girard)	
Rockpool blenny	<i>Hypsoblennius gilberti</i> (Jordan)	
Mussel blenny*	<i>Hypsoblennius jenkinsi</i> Jordan and Evermann	Crevice blenny
Wolf-eel	<i>Anarrhichthys ocellatus</i> Ayres	
Island kelpfish	<i>Alloclinus holderi</i> (Lauderbach)	Island klipfish
Orangethroat pikeblenny*	<i>Chaenopsis alepidota</i> (Gilbert)	Pacific pikeblenny, pikeblenny
Deepwater blenny	<i>Cryptotrema corallinum</i> Gilbert	Deepwater klipfish
Spotted kelpfish*	<i>Gibbonsia elegans</i> (Cooper)	Oscellated klipfish
Scarlet kelpfish	<i>Gibbonsia erythra</i> Hubbs	Scarlet klipfish
Striped kelpfish	<i>Gibbonsia metzi</i> Hubbs	Seaweed kelpfish, weed klipfish
Crevice kelpfish*	<i>Gibbonsia montereyensis</i> Hubbs	Spotted kelpfish, crevice klipfish
Giant kelpfish	<i>Heterostichus rostratus</i> Girard	Kelpfish, eel, kelp blenny, butterfish
Sarcastic fringehead	<i>Neoclinus blanchardi</i> Girard	Kelp fish
Yellowfin fringehead*	<i>Neoclinus stephensae</i> Hubbs	
Onespot fringehead	<i>Neoclinus uninotatus</i> Hubbs	
Reef finspot	<i>Paraclinus integripinnis</i> (Smith)	
Giant wrymouth*	<i>Deloepis gigantea</i> Kittlitz	Congo eel
Dwarf wrymouth*	<i>Lyconectes aleutensis</i> Gilbert	Red devil

Designated common name	Scientific name	Other common names
Monkeyface-eel	<i>Cebidichthys violaceus</i> (Girard)	Monkeyface prickleback, blenny eel, monkeyface blenny, eel, giant monkeyface-eel, California monkeyface-eel
	Monkeyface prickleback in AFS (1970). The term "eel" is so ingrained in the vernacular of California fishermen with respect to this species, we must follow Roedel (1962) and apply the name, monkeyface-eel. This also helps reduce confusion in names of "blenny-like" fishes in other families.	
Slender cockscomb*	<i>Anoplarchus insignis</i> Gilbert and Burke	
High cockscomb*	<i>Anoplarchus purpureus</i> Gill	Central cockscomb, crested blenny, cockscomb prickleback, cockscomb
Mosshead warbonnet*	<i>Chirolophis nugator</i> (Jordan and Williams)	Ornamented blenny, mosshead prickleback
Snake prickleback*	<i>Lumpenus sagitta</i> Wilimovsky	Eel-blenny, Pacific snake prickleback
Ribbon prickleback*	<i>Phytichthys chirus</i> (Jordan and Gilbert)	Belted blenny
Crisscross prickleback*	<i>Plagiogrammus hopkinsi</i> Bean	
Bluebarred prickleback*	<i>Plectobranthus evides</i> Gilbert	Black and white prickleback
Whitebarred prickleback*	<i>Poroclinus rothrocki</i> Bean	Whitebanded prickleback
Black prickleback*	<i>Xiphister atropurpureus</i> (Kittlitz)	
Rock prickleback	<i>Xiphister mucosus</i> (Girard)	Blenny-eel, rock blenny, rock-eel, black eel, eel, slick eel
	Roedel (1962) lists this species as rock-eel; however, we follow AFS (1970) since this is not an eel even though fishermen commonly refer to it as one. The use of prickle-back also helps reduce confusion in names of "blenny-like" fishes in other families.	
Penpoint gunnel*	<i>Apodichthys flavidus</i> Girard	Penpoint blenny
Longfin gunnel*	<i>Pholis clemensi</i> Rosenblatt	
Crescent gunnel*	<i>Pholis laeta</i> (Cope)	Bracketed blenny
Saddleback gunnel*	<i>Pholis ornata</i> (Girard)	Saddled blenny
Red gunnel*	<i>Pholis schultzi</i> Hubbs	Slender gunnel
Kelp gunnel*	<i>Ulvicola sanctaerosae</i> Gilbert and Starks	
Rockweed gunnel*	<i>Xerperes fucorum</i> (Jordan and Gilbert)	Fucus blenny
Graveldiver*	<i>Scytalina cerdale</i> Jordan and Gilbert	Borrowing blenny
Prowfish*	<i>Zaprora silenus</i> Jordan	
Ragfish*	<i>Icosteus aenigmaticus</i> Lockington	Brown ragfish, fantailed ragfish
Pacific sandlance*	<i>Ammodytes hexapterus</i> Pallas	Inshore sandlance, sandlance
Pacific fat sleeper*	<i>Dormitator latifrons</i> (Richardson)	

Yellowfin goby *	Acanthogobius flavimanus (Temminck and Schlegel)	
Arrow goby *	Clevelandia ios (Jordan and Gilbert)	Mud goby
Blackeye goby	Coryphopterus nicholsii (Bean)	Large scaled goby, crested goby, bluespot goby
	Listed as bluespot goby by Roedel (1962), but we follow AFS (1970) since blackeye goby is the more commonly used name.	
Tidewater goby *	Eucyclogobius newberryi (Girard)	
Longjaw mudsucker	Gillichthys mirabilis Cooper	Mudsucker, longjawed goby
Longtail goby *	Gobionellus longicaudus (Jenkins and Evermann)	
Cheekspot goby *	Ilypnus gilberti (Eigenmann and Eigenmann)	
Bay goby *	Lepidogobius lepidus (Girard)	Finescale goby
Kelp goby *	Lethops connectens Hubbs	Halfblind goby
	Halfblind goby in AFS (1970). Kelp goby seems much more appropriate so we follow Miller and Lea (1972) in designating this name.	
Bluebanded goby	Lythrypnus dalli (Gilbert)	
Zebra goby *	Lythrypnus zebra (Gilbert)	
Shadow goby *	Quietula y-cauda (Jenkins and Evermann)	
Chameleon goby *	Tridentiger trigonocephalus (Gill)	Trident goby, speckle faced goby
	This species is listed as trident goby by AFS (1970); however, we follow Miller and Lea (1972) since this fish has the ability to change rapidly (within seconds) its color pattern to either stripes or bars and the term "chameleon" is more appropriate.	
Blind goby	Typhlogobius californiensis Steindachner	
Snake mackerel *	Gempylus serpens Cuvier	
Oilfish *	Ruvettus pretiosus Cocco	
Razorback scabbardfish *	Assurger anzac (Alexander)	
Pacific scabbardfish *	Lepidopus xantusi Goode and Bean	Scabbardfish, black scabbardfish
	Scabbardfish in AFS (1970). We add the attributive "Pacific" to reduce confusion with razorback scabbardfish.	
Pacific cutlassfish	Trichiurus nitens Garman	Cutlassfish
Slender tuna *	Allothenus fallai Serventy	
Bullet mackerel	Auxis rochei (Risso)	Barred frigate mackerel, Pacific bullet mackerel
Frigate mackerel	Auxis thazard (Lacepede)	Streaked frigate mackerel, wavyback frigate mackerel, Mexican skipjack, keokeo
Wavyback skipjack	Euthynnus affinis Cantor	Kawakawa, little tuna
	Kawakawa in AFS (1970). We follow Roedel (1962) since the term "wavyback" is more descriptive of the fish and more meaningful to California fishermen.	
Black skipjack	Euthynnus lineatus Kishinouye	Cross bred mackerel, Mexican little tunny
Skipjack tuna	Euthynnus pelamis (Linnaeus)	Skippy, striped tuna, oceanic bonito, skipjack, watermelon, victor fish, oceanic skipjack, artic bonito, tuna
Escolar *	Lepidocybium flavobrunneum (Smith)	Deepsea escolar
Pacific bonito	Sarda chiliensis (Cuvier)	Bonito, California bonito, striped tuna, ocean bonito, skipjack
Pacific mackerel	Scomber japonicus Houttuyn	Blue mackerel, chub mackerel, green mackerel, right mackerel, greenback mackerel, striped mackerel, green jack, American mackerel, zebra mackerel, mackerel
	Chub mackerel in AFS (1970). We retain the name Pacific mackerel since it currently is so well established in the laws of California as well as in the vernacular of the fishermen.	

Monterey spanish mackerel	<i>Scomberomorus concolor</i> (Lockington)	Monterey mackerel, spanish mackerel
Sierra	<i>Scomberomorus sierra</i> Jordan and Starks	Sierra mackerel, spanish mackerel, cero, spotted mackerel
Albacore	<i>Thunnus alalunga</i> (Bonnatere)	Longfinned tuna, abrego, Pacific albacore, longfinned albacore, aliconghi, German, germo
Yellowfin tuna	<i>Thunnus albacares</i> (Bonnatere)	Yellowfinned albacore, Pacific yellowfin tuna, tuna
Bigeye tuna	<i>Thunnus obesus</i> Lowe	Bigeyed, patudo, tuna
Bluefin tuna	<i>Thunnus thynnus</i> (Linnaeus)	Tunny, great tunny, leaping tuna, California bluefin tuna, Pacific bluefin tuna, shortfin tuna, horse mackerel, ahi, great albacore, tuna
	Pacific albacore, <i>Thunnus germo</i> ; Pacific yellowtail, <i>Neothunnus macrpterus</i> ; Pacific bigeye tuna, <i>Parathunnus sibi</i> ; and California bluefin tuna, <i>Thunnus saliens</i> ; in Roedel (1962). Subsequent to that time all these species have been placed in the genus <i>Thunnus</i> and synonymized with worldwide species; therefore, we have dropped the attributives Pacific and California as being inappropriate.	
Swordfish	<i>Xiphias gladius</i> Linnaeus	Broadbill, broadbill swordfish
Louvar	<i>Luvatus imperialis</i> Rafinesque	
Sailfish	<i>Istiophorus platypterus</i> (Shaw and Nodder)	Pacific sailfish
	Roedel (1962) listed Pacific sailfish, <i>Istiophorus greyi</i> ; however, subsequently all sailfish species from all oceans have been synonymized under a single cosmopolitan species.	
	We therefore drop the attributive "Pacific" as being inappropriate.	
Black marlin	<i>Makaira indica</i> (Cuvier)	Spearfish, spikefish, sailfish
Blue marlin	<i>Makaira nigricans</i> Lacepede	Spearfish, spikefish, sailfish
Shortbill spearfish	<i>Tetrapturus angustirostris</i> Tanaka	
Striped marlin	<i>Tetrapturus audax</i> (Philippi)	Spearfish, spikefish, sailfish, Pacific marlin
Medusafish	<i>Icichthys lockingtoni</i> Jordan and Gilbert	Brown rubberfish
Pacific butterfish	<i>Peprilus simillimus</i> (Ayres)	Pacific pompano, butterfish, California pompano, California butterfish, pompano
	Pacific pompano in Roedel (1962) and AFS (1970). This name is somewhat misleading since "pompano" is most frequently used in reference to certain fishes in the family Carangidae; therefore, we follow Miller and Lea (1972) and designate the common name Pacific butterfish.	
Smalleye squaretail	<i>Tetragonurus cuvieri</i> Risso	Squaretail, escolar de natura, courpata, sea raven, Pacific squaretail
Pacific sanddab	<i>Citharichthys sordidus</i> (Girard)	Sand dab, soft flounder, sole, mottled sanddab, megrim
Speckled sanddab	<i>Citharichthys stigmaeus</i> Jordan and Gilbert	Sand dab
Longfin sanddab	<i>Citharichthys xanthostigma</i> Gillbert	Sand dab, soft flounder, Catalina sanddab
Bigmouth sole	<i>Hippoglossina stomata</i> Eigenmann and Eigenmann	Bigmouth flounder, bigmouth halibut
California halibut	<i>Paralichthys californicus</i> (Ayres)	Halibut, chicken halibut, bastard halibut, southern halibut, alabato, Monterey halibut
Fantail sole	<i>Xystreureys liolepis</i> Jordan and Gilbert	Longfinned flounder, longfin sole, true petrale, fantail halibut, fantail flounder

Arrowtooth flounder	<i>Atheresthes stomias</i> (Jordan and Gilbert)	Arrowtoothed sole, arrowtooth halibut, turbot, bastard halibut, French sole, longjawed flounder, English flounder
Deepsea sole	<i>Embassichthys bathybius</i> (Gilbert)	Speckled sole, blackmouth sole
Petrale sole	<i>Eopsetta jordani</i> (Lockington)	Roundnosed sole, Jordan's flounder, California sole, English sole, brill, soglia
Rex sole	<i>Glyptocephalus zachirus</i> Lockington	Longfinned sole, witch sole
Flathead sole *	<i>Hippoglossoides elassodon</i> Jordan and Gilbert	
Pacific halibut	<i>Hippoglossus stenolepis</i> Schmidt	Halibut, alabato, northern halibut, right halibut, genuine halibut, real halibut
Diamond turbot	<i>Hypsopsetta guttulata</i> (Girard)	Diamond flounder, turbot, halibut, sole
Butter sole	<i>Isopsetta isolepis</i> (Lockington)	Scalyfin sole, scalyfinned flounder, Bellingham sole, sole, rock sole
	Scalyfin sole in Roedel (1962). We follow AFS (1970) since the name "butter sole" is so well established in the vernacular.	
Rock sole	<i>Lepidopsetta bilineata</i> (Ayres)	Broadfin sole, doublelined flounder, flounder, rock sole, sole, gravel sole, roughback sole
Slender sole	<i>Lyopsetta exilis</i> (Jordan and Gilbert)	Slender flounder, rough sole
Dover sole	<i>Microstomus pacificus</i> (Lockington)	Slippery sole, slime sole, shortfinned sole, rubber sole, smear dab, lemon sole, Chinese sole
English sole	<i>Parophrys vetulus</i> Girard	Pointednosed sole, common sole, California sole, lemon sole, sole, sharpnose sole
Starry flounder	<i>Platichthys stellatus</i> (Pallas)	Rough jacket, great flounder, sole, English sole, flounder, grindstone, California flounder, emery flounder
C-O turbot	<i>Pleuronichthys coenosus</i> Girard	C-O sole, mottled turbot
	C-O sole in AFS (1970). Members of this genus are generally called "turbot" and lumped under that name in reporting the California commercial catch. For that reason we follow Roedel (1962).	
Curlfin turbot	<i>Pleuronichthys decurrens</i> Jordan and Gilbert	California turbot, curlfinned flounder, curlfin sole, and dab
Spotted turbot	<i>Pleuronichthys ritteri</i> Starks and Morris	Ritter's turbot
Hornyhead turbot	<i>Pleuronichthys verticalis</i> Jordan and Gilbert	Sharpridged turbot, sharpridged flounder, sand dab
Sand sole	<i>Psettichthys melanostictus</i> Girard	Fringe sole, spotted flounder, sand dab
Greenland halibut *	<i>Reinhardtius hippoglossoides</i> (Walbaum)	Halibut, right halibut, northern halibut, genuine halibut, real halibut, alabato, sole
California tonguefish	<i>Symphurus atricauda</i> (Jordan and Gilbert)	Tongue sole, tonguefish
Finescale triggerfish *	<i>Balistes polylepis</i> Steindachner	Pez puerco
Black triggerfish *	<i>Melichthys niger</i> (Bloch)	Black durgon
	Black durgon in AFS (1970). We follow Miller and Lea (1972) since we feel the term "triggerfish" is more easily identified with the family.	
Redtail triggerfish *	<i>Xanthichthys mento</i> (Jordan and Gilbert)	
Spiny boxfish *	<i>Ostracion diaphanum</i> Bloch and Schneider	

Designated common name	Scientific name	Other common names
Oceanic puffer*	Lagocephalus lagocephalus (Linnaeus)	
Bullseye puffer*	Sphoeroides annulatus (Jenyns)	Globe fish, network puffer
Botete*	Sphoeroides lobatus (Steindachner)	Gulf puffer
Pacific burrfish*	Chilomycterus affinis Gunther	Burfish
Spotted porcupine fish*	Diodon hystrix Linnaeus	Porcupinefish
	Porcupinefish in AFS (1970). We follow Miller and Lea (1972), since the attributive "spotted" helps identify the species.	
Common mola	Mola mola (Linnaeus)	Ocean sunfish, mola, sun fish, millstone, headfish
	We add the attributive common to name "mola" as listed by Roedel (1962) since it is by far the most common of the two molas in California waters. AFS (1970) list "ocean sunfish" which also is applied in the vernacular.	
Slender mola*	Ranzania laevis (Pennant)	
Fingered limpet	Acmaea digitalis Eschscholtz	Finger limpet
Whitecap limpet	Acmaea mitra Eschscholtz	Whitecap, duncecap limpet
Owl limpet	Lottia gigantea Sowerby	Giant owl shell, owl shell
Threaded abalone	Haliotis assimilis Dall	
Pink abalone	Haliotis corrugata Gray	Corrugated abalone, rough abalone
Black abalone	Haliotis cracherodii Leach	
Green abalone	Haliotis fulgens Philippi	Splendid abalone, splendid ear shell, blue abalone
Pinto abalone	Haliotis kamtschatkama Jonas	Japanese abalone
Red abalone	Haliotis rufescens Swainson	
White abalone	Haliotis sorenseni Bartsch	
Flat abalone	Haliotis walallensis Stearns	Northern green abalone
Volcano limpet	Fissurella volcano Reeve	Volcano keyhole limpet
Giant keyhole limpet	Megathura crenulata (Sowerby)	Black keyhole limpet
Purple ringed top shell	Calliostoma annulatum (Lightfoot)	
Channeled top shell	Calliostoma canaliculatum (Lightfoot)	
Ribbed top shell	Calliostoma ligatum Gould	
Brown turban	Tegula brunnea (Philippi)	Brown tegula, brown top

Black turban
Speckled turban
Monterey turban
Dusky turban
Red top
Wavy top
Eroded periwinkle

Checkered periwinkle
Scaled worm shell (snail)
California horn shell (snail)
Hoof shell (snail)
Hooked slipper
Onyx slipper
Half slipper
Spiny cup and saucer
Lewis moon snail

Southern moon snail
Chestnut cowry
California frog shell (snail)

Tegula funebris (Adams)
Tegula gallina (Forbes)
Tegula montereyi Kiener
Tegula pulligo Gmelin
Astraea gibberosa (Dillwyn)
Astraea undosa (Wood)
Littorina planaxis Philippi

Littorina scutulata Gould
Serpulorbis squamigerus (Carpenter)
Cerithidea californica (Haldeman)
Hipponix antiquatus Linnaeus
Crepidula adunca Sowerby
Crepidula onyx Sowerby
Crepidatella lingulata (Gould)
Crucibulum spinosum (Sowerby)
Polinices lewisii (Gould)

Polinices reclusianus (Deshayes)
Cypraea spadicea (Swainson)
Bursa californica (Hinds)

Black tegula, black top
Speckled tegula, speckled top
Monterey tegula
Dusky tegula
Red turban
Wavy turban, wavy top turban, wavy turbine
Flatbottomed periwinkle, flat periwinkle, gray littorina

Scaly worm mollusk

Ancient hoof shell, horse hoof shell
Turban slipper shell

Pacific half slipper, wrinkled slipper shell
Cup and saucer, cup and saucer limpet
Northern moon snail, western moon shell, Lewis's bullseye
Recluz's moon snail, Recluz's bullseye
Nutbrown cowry
California frog mollusk

Designated common name	Scientific name	Other common names
Belcher's murex	<i>Forreria belcheri</i> (Hinds)	Giant forreria, Belcher's chorus shell
Lurid rock	<i>Ocenebra lurida</i> (Middendorff)	Lurid <i>ocenebra</i> , lurid murex
Poulson's rock	<i>Ocenebra poulsoni</i> (Carpenter)	
Festive murex	<i>Pteropurpura festiva</i> (Hinds)	Festive rock shell
Three winged murex	<i>Pteropurpura triolata</i> (Sowerby)	Three-winged rock shell
Kellet's whelk	<i>Kelletia kelleitii</i> (Forbes)	
Beatic olive	<i>Olivella baetica</i> Carpenter	Beatic <i>olivella</i> , beatic dwarf olive, brown olive
Purple olive	<i>Olivella biplicata</i> (Sowerby)	Purple <i>olivella</i> , purple dwarf olive, California purple olive
California cone	<i>Conus californicus</i> Hinds	
California bubble	<i>Bulla gouldiana</i> Pilsbry	Gould's bubble, cloudy bubble
Gould's paper bubble	<i>Haminoea vesicula</i> (Gould)	White bubble shell, bubble shell, blister paper bubble
Green paper bubble	<i>Haminoea virescens</i> (Sowerby)	Green bubble shell
San Diego peapod	<i>Adula diegensis</i> (Dall)	
Peapod borer	<i>Adula falcata</i> (Gould)	Falcate date mussel, peapod shell, hooked peapod
Ribbed horsemussel	<i>Gukensia demissa</i> (Dillwyn)	Ribbed mussel
Date mussel	<i>Lithophaga plumula</i> (Hanley)	Rock boring mussel, rock eating mussel, rock-dwelling mussel, rock borer
Fat horsemussel	<i>Modiolus capax</i> (Conrad)	Capax horsemussel, horsemussel
Straight horsemussel	<i>Modiolus rectus</i> (Conrad)	Giant horsemussel, horsemussel, straight mussel
California seamussel	<i>Mytilus californianus</i> Conrad	California mussel, mussel, sea mussel
Bay mussel	<i>Mytilus edulis</i> Linnaeus	Edible mussel, black mussel, blue mussel
Platform mussel	<i>Septifer bifurcatus</i> (Conrad)	Branch-ribbed mussel
Giant Pacific oyster	<i>Crassostrea gigas</i> (Thunberg)	Japanese oyster
Eastern oyster	<i>Crassostrea virginica</i> (Gmelin)	Virginia oyster
Native oyster	<i>Ostrea lurida</i> Carpenter	Lurid oyster, Olympia oyster, California oyster

Speckled scallop	<i>Aequipecten aequiscalcatus</i> (Carpenter)	Bay scallops, speckled pecten
Rock scallop	<i>Hinnites multirugosus</i> Gale	Purplehinged pecten, giant rock scallop, rock pecten, purplehinged scallop
Weathervane scallop	<i>Pecten caurinus</i> (Gould)	
San Diego scallop	<i>Pecten diegensis</i> Dall	San Diego pecten
Pearly jingle	<i>Anomia peruviana</i> d'Orbigny	Lawless shell, jingle shell, Peruvian jingle, rock oyster, lamp anomia, common jingle
Abalone jingle	<i>Pododesmus cepio</i> (Gray)	Blister oyster
Agate chama	<i>Chama pellucida</i> Sowerby	Clear jewel box, jewel box, agate jewel box, agate rock oyster
California reversed chama	<i>Pseudochama exogyra</i> (Conrad)	Reversed chama, reversed jewel box, reversed rock oyster
Basket cockle	<i>Clinocardium nuttalli</i> (Conrad)	Nuttall's cockle
Smooth giant cockle	<i>Laevicardium elatum</i> (Sowerby)	Giant egg cockle, giant cockle
Spiny cockle	<i>Trachycardium quadragenarium</i> (Conrad)	Forty ribbed cockle, giant Pacific cockle, forty ribbed heart clam
White amiantis	<i>Amiantis callosa</i> (Conrad)	White venus, sea cockle
Banded chione	<i>Chione californiensis</i> (Broderip)	California chione, banded cockle, California venus, hardshell cockle
Smooth chione	<i>Chione fluctifraga</i> (Sowerby)	Smooth cockle, smooth Pacific venus, smooth California venus, hardshell cockle
Wavy chione	<i>Chione undatella</i> (Sowerby)	Wavy cockle, frilled California venus, hardshell cockle
Northern quahog	<i>Mercenaria mercenaria</i> (Linnaeus)	Quahog, round clam, hardshell clam
Roughsided littleneck	<i>Protothaca laciniata</i> (Carpenter)	Folded littleneck, netted carpet shell
Common littleneck	<i>Protothaca staminea</i> (Conrad)	Littleneck clam, ribbed carpet shell, common Pacific littleneck, native littleneck, rock cockle, hardshell, Tomales Bay cockle, rock clam
Thinselled littleneck	<i>Protothaca tenerrima</i> (Carpenter)	Finest carpet shell, thinselled cockle
Smooth Washington clam	<i>Saxidomus giganteus</i> (Deshayes)	Giant saxidome, giant rockdweller, big neck clam, butter clam, money shell
Common Washington clam	<i>Saxidomus nuttalli</i> Conrad	Washington clam, Nuttall's saxidome, bigneck clam, butter clam, money shell
Japanese littleneck	<i>Ruditapes semidecussata</i> (Reeve)	
Pismo clam	<i>Tivela stultorum</i> (Mawe)	Great tivela, thickshell tivela
Ford's venus	<i>Ventricolaria fordii</i> (Yates)	
California maetra	<i>Mactra californica</i> Conrad	California surf clam
Narrow dish clam	<i>Spisula catilliformis</i> (Conrad)	Dish clam
Hemphill dish clam	<i>Spisula hemphilli</i> (Dall)	Hemphill's surf clam
Gaper	<i>Tresus nuttalli</i> (Conrad)	Big neck, Pacific gaper, horse clam, gaper clam, summer clam, otter shell

Designated common name	Scientific name	Other common names
Yellow apolymetis	<i>Florimetis obesa</i> (Deshayes)	
Bentnose clam	<i>Macoma nasuta</i> (Conrad)	Bentnose macoma, tellens, mud clam
White sandclam	<i>Macoma secta</i> (Conrad)	White macoma, white sand macoma, giant macoma
Bodega tellen	<i>Tellina bodegensis</i> Hinds	Tellen
Wedge clam	<i>Donax californicus</i> Conrad	California wedge clam, California bean clam
Bean clam	<i>Donax gouldii</i> Dall	Common Pacific wedge shell, little bean clam, Gould's wedge shell
Sunset clam	<i>Gari californica</i> (Conrad)	California sunset shell
Deepwater gari	<i>Gari edentula</i> (Gobb)	Giant sunset shell, sunset clam
Purple clam	<i>Sanguinolaria nuttalli</i> Conrad	
Clipped semele	<i>Semele decisa</i> (Conrad)	Flat clam, bark semele
California jackknife clam	<i>Tagelus californianus</i> (Conrad)	Short razor clam, California short razor, jackknife clam, razor clam
Northern razor clam	<i>Siliqua patula</i> (Dixon)	Flat razor shell, Pacific razor clam, California razor fish, razor clam, sea clam
Rosy razor clam	<i>Solen rosaceus</i> Carpenter	Jackknife clam, razor clam
Sickle razor clam	<i>Solen sicarius</i> Gould	Blunt razor shell, jackknife clam, razor clam
Softshell clam	<i>Mya arenaria</i> Linnaeus	Common mya, long clam, nanninose, soft clam, eastern softshell clam, mud clam
Checked borer	<i>Platyodon cancellatus</i> (Conrad)	Flat toothed clam, chubby mya, crossbarred broadtooth clam
Geoduck	<i>Panopea generosa</i> (Gould)	Giant panopaea, geoduc, gweduc
Mud piddock	<i>Barnea subtruncata</i> (Sowerby)	Pacific piddock
Scalesided piddock	<i>Parapholas californica</i> (Conrad)	California piddock, borer, piddock
Flaptipped piddock	<i>Penitella penita</i> (Conrad)	Common piddock, rock piddock, borer
Wartnecked piddock	<i>Pholadidea ovoidea</i> (Gould)	Oval piddock
Rough piddock	<i>Zirfaea pilsbryi</i> Lowe	Pilsbry's piddock, piddock, borer
Giant Pacific chiton	<i>Cryptochiton stelleri</i> (Middendorff)	Gumboot, giant chiton, gumboot chiton, giant sea cradle

Conspicuous chiton
Lined chiton
Black chiton
Mossy chiton
Twospot octopus
Common octopus
Market squid

Sea bat
Giant spined starfish

Common starfish
Fragil sea urchin
Giant red sea urchin
Purple sea urchin

Stenoplax conspicua (Pilsbry)
Tonicella lineata (Wood)
Katharina tunicata (Wood)
Mopalia muscosa Gould
Octopus bimaculatus (Verrill)
Octopus punctatus (Gobb)
Loligo opalescens Berry

Patiria miniata (Brandt)
Pisaster giganteus (Stimpson)

Pisaster ochraceus (Brandt)
Allocentrotus fragilis (Jackson)
Strongylocentrotus franciscanus (Agassiz)
Strongylocentrotus purpuratus (Stimpson)

Showy chiton, sea cradle
Redlined chiton
Black Katy chiton, black Katy
Moss chiton, mossy mopalia

Devilfish
Common squid, sea arrow, squid, opalescent squid,
inkfish, calamari
Webbed starfish, webbed seastar, batstar, bat starfish
Giant starfish knobby starfish, southern two-colored
starfish, spiny star, contrasting colored starfish
Purple starfish, ochre starfish

Red sea urchin, giant red urchin
Purple urchin

Designated common name	Scientific name	Other common names
Sand dollar	<i>Dendroaster excentricus</i> (Eschscholtz)	Common sand dollar
Heart urchin	<i>Lovenia cordiformis</i> Lutken	Sea porcupine
Big acorn barnacle	<i>Balanus cariosus</i> (Pallas)	
Common acorn barnacle	<i>Balanus glandula</i> Darwin	White buckshot barnacle
Large barnacle	<i>Balanus nubilus</i> Darwin	
Red and white barnacle	<i>Balanus tintinnabulum</i> (Linnaeus)	Pink barnacle
Thatched barnacle	<i>Tetraclita squamosa</i> Darwin	
Pacific goose barnacle	<i>Mitella polymerus</i> (Sowerby)	Goose barnacle, gooseneck barnacle
Driftwood goose barnacle	<i>Lepas anatifera</i> Linnaeus	Ship goose barnacle
Brine shrimp	<i>Artemia salina</i> Leach	
Ridgeback prawn	<i>Eusicyonia ingentus</i> Burkenroad	
Pacific ocean shrimp	<i>Pandalus jordani</i> Rathbun	Ocean shrimp
Spot prawn	<i>Pandalus platyceros</i> Brandt	

Red rock shrimp	<i>Hippolytina californica</i> Stimpson	Red striped shrimp, large transparent shrimp, striped tidepool shrimp
Slender green shrimp	<i>Hippolyte californiensis</i> Holmes	Brokenback shrimp
Redbanded transparent shrimp	<i>Spirontocaris picta</i> (Stimpson)	Pistol shrimp
California pistol shrimp	<i>Crangon californiensis</i> (Holmes)	Snapping shrimp
Pistol shrimp	<i>Crangon dentipes</i> (Guerin)	California shrimp
Franciscan bay shrimp	<i>Crango franciscorum</i> (Stimpson)	Blacktailed shrimp
Blacktailed bay shrimp	<i>Crango nigricauda</i> (Stimpson)	
Spotted bay shrimp	<i>Crango nigromaculata</i> (Lockington)	Rock lobsters
California spiny lobster	<i>Panulirus interruptus</i> (Randall)	Red ghost shrimp, California ghost shrimp, rocky-shore ghost shrimp
Beach ghost shrimp	<i>Callianassa affinis</i> Holmes	
Bay ghost shrimp	<i>Callianassa californiensis</i> Dana	
Giant ghost shrimp	<i>Callianassa gigas</i> Dana	
Blue mud shrimp	<i>Upogebia pugettensis</i> (Dana)	
California giant hermit crab	<i>Holopagurus pilosus</i> Holmes	
California hermit crab	<i>Pagurus californiensis</i> (Benedict)	
Compressed wrist hermit crab	<i>Pagurus hemphillii</i> (Benedict)	
Hairy hermit crab	<i>Pagurus hirsutiusculus</i> (Dana)	
Blueclawed hermit crab	<i>Pagurus samuelis</i> (Stimpson)	
Box crab	<i>Lopholithodes foraminatus</i> (Stimpson)	
Pelagic red crab	<i>Pleuroncodes planipes</i> Stimpson	Tuna crab, squat lobster, red crab
Spiny mole crab	<i>Blepharipoda occidentalis</i> Randall	Spiny sand crab, giant sand crab
Porcelain mole crab	<i>Lepidopa myops</i> Stimpson	Porcelain sand crab
Sand crab	<i>Emerita analoga</i> (Stimpson)	Common sand crab
Thickclawed porcelain crab	<i>Pachycheles rudis</i> Stimpson	Thickclawed crab
Flat porcelain crab	<i>Petrolisthes cinctipes</i> (Randall)	Porcelain crab

Designated common name	Scientific name	Other common names
Purple crab	<i>Randallia ornata</i> (Randall)	Globe crab, purple globe crab
Elbow crab	<i>Heterocrypta occidentalis</i> (Dana)	
Shieldbacked kelp crab	<i>Pugettia producta</i> (Randall)	Northern kelp crab, kelp crab
Graceful kelp crab	<i>Pugettia gracilis</i> Dana	
Sheep crab	<i>Loxorhynchus grandis</i> Stimpson	
Champion masking crab	<i>Loxorhynchus crispatus</i> Stimpson	Moss covered crab, masking crab, moss crab
Graceful decorator crab	<i>Oregonia gracilis</i> Dana	
Rock crab	<i>Cancer antennarius</i> Stimpson	Spotbellied rock crab, common rock crab
Yellow crab	<i>Cancer anthonyi</i> Rathbun	
Slender crab	<i>Cancer gracilis</i> Dana	
Dungeness crab	<i>Cancer magister</i> Dana	Market crab, edible crab, big crab, common crab, Pacific edible crab, Pacific coast edible crab, commercial crab
	This species is called Dungeness crab in most areas along the Pacific coast of the United States and Canada. In California it has been called the market crab; however, to promote uniformity in the nomenclature of common names, we designate Dungeness crab as the common name in California.	
Red crab	<i>Cancer productus</i> Randall	Red rock crab, rock crab
Swimming crab	<i>Portunus xantusii</i> (Stimpson)	
Purple shore crab	<i>Hemigrapsus nudus</i> (Dana)	
Yellow shore crab	<i>Hemigrapsus oregonensis</i> (Dana)	Mud crab, mudflat crab, green shore crab
Striped shore crab	<i>Pachygrapsus crassipes</i> Randall	Lined shore crab
Fiddler crab	<i>Uca crenulata</i> (Lockington)	

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