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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

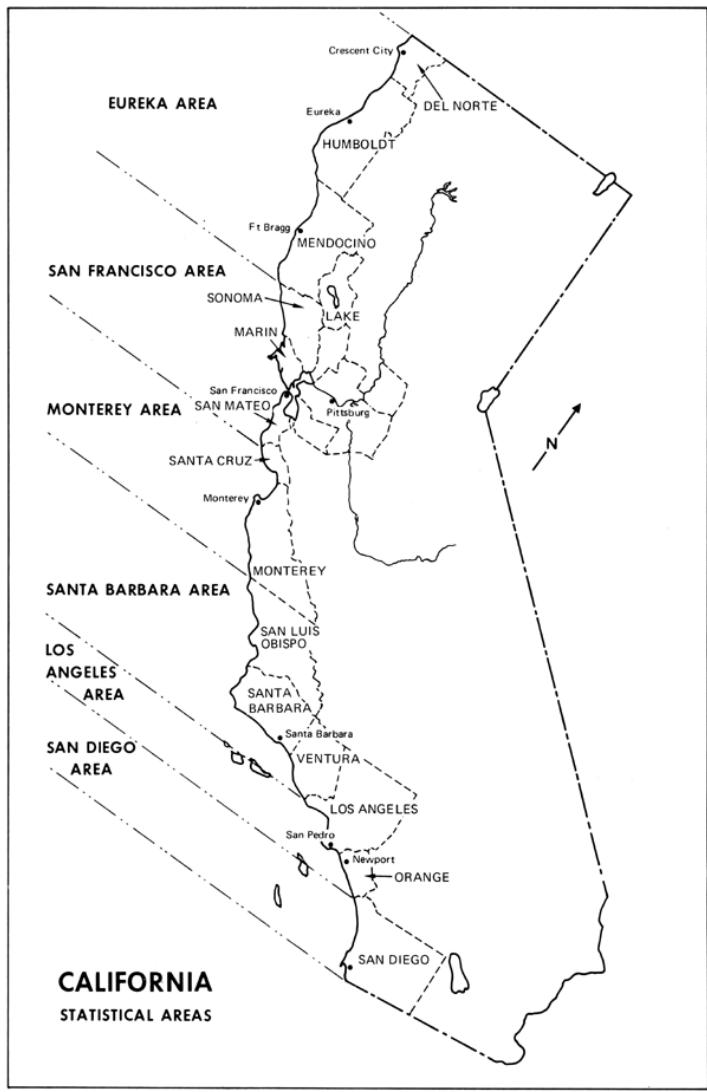


Figure 1. Geographical areas used to summarize California Fisheries statistics.

(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 inshore 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	<i>Oncorhynchus tshawytscha</i>
Barracuda, California....	<i>Sphyraena argentea</i>	King.....	<i>Oncorhynchus gorbuscha</i>
Bass, rock.....	<i>Paralabrax clathratus</i>	Pink.....	<i>Oncorhynchus kisutch</i>
Kelp bass.....	<i>Paralabrax nebulosus</i>	Silver.....	<i>Citharichthys sordidus</i>
Sand bass, barred....	<i>Paralabrax maculatusfasciatus</i>	Sandbar.....	<i>Sardinops sagax caeruleus</i>
Spotted sand bass....	<i>Paralabrax maculatus</i>	Sardine, Pacific.....	<i>Sardinops sagax</i>
Blacksmith.....	<i>Chromis punctipinnis</i>	Sargo.....	<i>Anisotremus davidsonii</i>
Bonito, Pacific....	<i>Sarda chilensis</i>	Scorpion.....	<i>Scorpaena guttatus</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.....		Sebastas, white.....	<i>Cynoscion nobilis</i>
Whiting.....	<i>Gymnocephalus lineatus</i>	Shark.....	
Queenfish.....	<i>Seriola polita</i>	Members of family Alopidae, Carcharhinidae, Lamnidae, and Squalidae.	
Dolphinfish.....	<i>Coryphaena hippurus</i>	Sheephead, California....	<i>Pimelometopon pulchrum</i>
Eel, wolf.....	<i>Anarrhichthys ocellatus</i>	Skates and Rays.....	
Flounder.....	<i>Atheresthes stoma</i>	Members of family Rhinobatidae, Rajidae, and Myliobatidae	
Arrowtooth.....	<i>Platichthys stellatus</i>	Smelt.....	
Starry.....	<i>Cyprinodon californicus</i>	Jacksmtel.....	<i>Atherinopsis californiensis</i>
Flyingfish.....	<i>Cypselurus spp.</i>	Night.....	<i>Spirinchus starksii</i>
Freshwater fish.....		Surf.....	<i>Hypomesus pretiosus</i>
Carp.....	<i>Cyprinus carpio</i>	Whitebait.....	<i>Allosmerus elongatus</i> and <i>Spirinchus starksii</i>
Sacramento blackfish....	<i>Orthodon microlepidotus</i>	Sole.....	
Greenling, kelp.....	<i>Hexagrammos decagrammus</i>	Butter.....	<i>Isopsetta isolepis</i>
Grenadiers.....		Dover.....	<i>Microdromus pacificus</i>
California.....	<i>Nezumia stegidolepis</i>	English.....	<i>Parophrys setiferus</i>
Pacific.....	<i>Comphocephalo acrolepis</i>	Petrale.....	<i>Eopsetta jordani</i>
Hake, Pacific.....	<i>Merluccius productus</i>	Rex.....	<i>Glyptocephalus zachirus</i>
Halfmoon.....	<i>Merluccius productus</i>	Rock.....	<i>Lepidopsetta bilineata</i>
Halibut.....		Sand.....	<i>Psettichthys melanostictus</i>
California.....	<i>Paralichthys californicus</i>	Swordfish.....	<i>Xiphias gladius</i>
Pacific.....	<i>Hippoglossus stenolepis</i>	Tuna.....	
Herring, Pacific....	<i>Clupea harengus pallasi</i>	Albacore.....	<i>Thunnus alalunga</i>
Killifish, California....	<i>Fundulus parvipinnis</i>	Bigeye.....	<i>Thunnus obesus</i>
Lamprey.....	<i>Lampris spp.</i>	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.....		Turbot.....	
Moray, California....	<i>Scomber japonicus</i>	Curfin.....	<i>Pleuronichthys decurrens</i>
Mother, longjaw....	<i>Gymnothorax mordax</i>	Diamond.....	<i>Hypopsetta putula</i>
Mullet, striped....	<i>Mugil cephalus</i>	Hornyhead.....	<i>Pleuronichthys verticalis</i>
Opah, ocean.....	<i>Opah nigerians</i>	Wahoo.....	<i>Acanthocybium solanderi</i>
Perch, ocean.....		Whitefish, ocean.....	<i>Caulolatilus princeps</i>
Pompano (Butterfish, Pacific).....	<i>Peporus 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 spp.</i>	Spot.....	<i>Pandalus platyceros</i>
Sand.....	<i>Emerita analoga</i>	Shrimp.....	
Shore.....	<i>Hemigrapsus spp.</i>	Bay.....	<i>Crangon spp.</i>
Sheep.....	<i>Lazorthynchus spp.</i>	Ghost, Bay.....	<i>Callianassa californiensis</i>
Crayfish.....	<i>Astacus troxbridgei</i>	Ocean, Pacific.....	<i>Pandalus jordani</i>
Lobster, spiny.....	<i>Panulirus interruptus</i>	Red.....	<i>Hippolytess californica</i>
ECHINODERMS			
Starfish, common.....	<i>Piaster spp.</i>	Sea urchin.....	<i>Strongylocentrotus spp.</i>
MOLLUSKS			
Avalone.....		Softshell.....	<i>Mya arenaria</i>
Black.....	<i>Halotis cracherodii</i>	Washington, common.....	<i>Saxidomus nuttalli</i>
Green.....	<i>Halotis fulgens</i>	Mussel.....	
Pink.....	<i>Halotis corrugata</i>	Bay.....	<i>Mytilus edulis</i>
Red.....	<i>Halotis rufescens</i>	Rock.....	<i>Mytilus californianus</i>
Threaded.....	<i>Halotis assimilis</i>	Octopi.....	<i>Peloplys spp.</i>
White.....	<i>Halotis sorenseni</i>	Oyster.....	
Clam.....		Eastern.....	<i>Crassostrea virginica</i>
Freshwater.....	<i>Corbicula fluminea</i>	Giant Pacific.....	<i>Crassostrea gigas</i>
Jackknife, California....	<i>Tegula californiana</i>	Snail, sea.....	<i>Liparis atlanticus</i>
Littleneck.....	<i>Pectinatula staminea</i>	Squid, market.....	<i>Loligo opalescens</i>
Purple.....	<i>Sanguinolaria nuttalli</i>		
Quahog, Northern....	<i>Mercenaria mercenaria</i>		

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

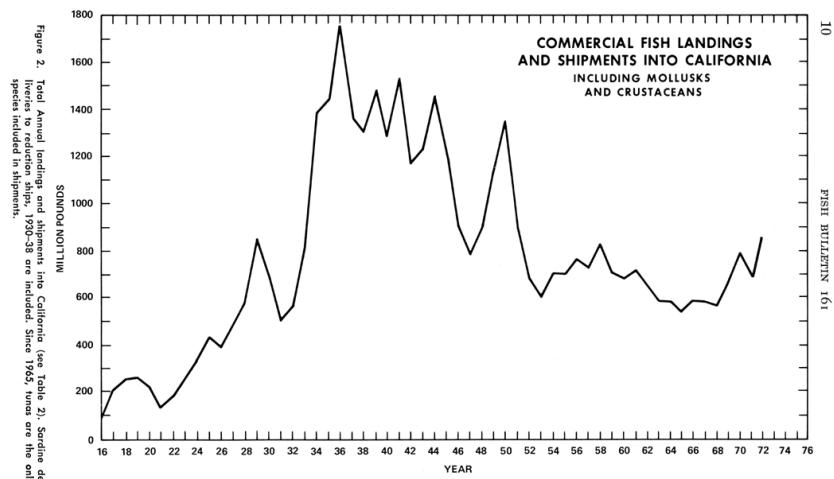


Figure 2. Total Annual landings and shipments into California (see Table 2). Sardine deliveries to reduction ships, 1930–38 are included. Since 1965, tunas are the only species included in shipments.

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.....	209,577	1947.....	795,499
1918.....	261,134	1948.....	900,467
1919.....	266,270	1949.....	1,135,339
1920.....	222,004	1950.....	1,366,676
1921.....	135,348	1951.....	904,114
1922.....	182,343	1952.....	694,996
1923.....	253,875	1953.....	618,919
1924.....	340,446	1954.....	713,410
1925.....	437,302	1955.....	710,713
1926.....	394,964	1956.....	772,551
1927.....	457,134	1957.....	738,530
1928.....	552,437	1958.....	832,919
1929.....	856,854	1959.....	713,423
1930.....	702,189	1960.....	694,663
1931.....	502,300	1961.....	725,253
1932.....	556,139	1962.....	663,107
1933.....	821,805	1963.....	592,899
1934.....	1,390,798	1964.....	591,131
1935.....	1,448,017	*1965.....	544,480
1936.....	1,764,900	1966.....	501,533
1937.....	1,362,584	1967.....	589,028
1938.....	1,310,596	1968.....	567,214
1939.....	1,486,535	1969.....	672,793
1940.....	1,297,518	1970.....	798,115
1941.....	1,528,892	1971.....	687,995
1942.....	1,173,414	1972.....	845,699
1943.....	1,234,049		
1944.....	1,459,456		
1945.....	1,216,301		

* 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 *

Species	1971		1972				
	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	123,765	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	2,153
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
Bluenose tuna.....	8	19,828	4,204	Dover sole.....	8	12,498	1,208
Dover sole.....	9	14,249	1,778	Dover sole.....	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	8,141	4,760	Sablefish.....	12	9,450	4,690
Sablefish.....	13	4,424	450	Petrale sole.....	13	3,575	599
Petrale sole.....	14	3,704	611	Lingcod.....	14	3,245	339
Ocean shrimp.....	15	3,081	400	Ablalone.....	15	3,093	1,248
English sole.....	16	2,964	316	English sole.....	16	3,002	342
Ablalone.....	17	2,945	953	Ocean shrimp.....	17	2,490	374
Lingcod.....	18	2,098	201	Rex sole.....	18	1,662	201
Bigeye tuna.....	19	1,871	394	Dungeness crab.....	19	1,563	889
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	7,600,352	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					Tuna shipments*	Grand total
	California waters	Waters north of State	Waters south of State	Central Pacific waters	Total pounds		
Fish:							
Ashley, northern.....	138,201,622	----	51	----	138,201,673	----	138,201,673
Barracuda, California.....	13,915	----	----	----	13,915	----	13,915
Blacksmith.....	72,880	----	----	----	75,880	----	75,880
Bonito, Pacific.....	15,000,381	----	6,712,266	----	22,212,627	----	22,212,627
Cabezon.....	5,853	----	----	----	5,853	----	5,853
Codfish.....	373,410	----	----	----	373,410	----	373,410
Dolphinfish.....	1,567	2,635	6,317	----	7,784	----	7,784
Flounder.....	65,070	2,635	----	----	65,710	----	65,710
Hammerhead.....	147,229	1,221	----	----	153,937	----	153,937
Flyingfish.....	128,889	----	----	----	128,889	----	128,889
Grenadiers.....	56,647	7,376	----	----	64,023	----	64,023
Hake, Pacific.....	10,525	----	----	----	10,525	----	10,525
Haddock.....	27,123	----	----	----	27,123	----	27,123
Halibut, California.....	309,063	----	242	----	309,245	----	309,245
Halibut, Pacific.....	235	----	----	----	235	----	235
Herring, Pacific.....	125,448	----	----	----	125,448	----	125,448
Kingfish.....	2,925,253	116,731	----	----	3,146,186	----	3,146,186
Mackerel, jack.....	51,116,891	----	682	----	51,117,573	----	51,117,573
Mackerel, Pacific.....	108,363	----	43	----	108,363	----	108,363
Muskrat, longtail.....	1,280	----	----	----	1,280	----	1,280
Otolarynx.....	15,390	----	----	----	15,390	----	15,390
Perch.....	272,470	----	443	----	272,913	----	272,913
Pompano, Pacific.....	154,842	----	90	----	154,932	----	154,932
Quillfish.....	46,177	----	----	----	46,177	----	46,177
Rockfish.....	13,865,230	510,848	42,174	----	16,421,232	----	16,421,232
Sablefish.....	7,935,299	412,415	----	----	8,305,714	----	8,305,714
Salmon.....	6,422,171	1,118	----	----	6,422,289	----	6,422,289
Sardine.....	140,430	4,143	----	----	140,430	----	140,430
Sardine, Pacific.....	372,230	----	----	----	372,230	----	372,230
Sargo.....	637	----	229	----	866	----	866
Sculpin.....	61,896	----	70,120	----	132,016	----	132,016
Sea bass, giant.....	12,239	----	32,381	----	35,313	----	35,313
Sebastodes, white.....	550,891	----	226,407	----	777,388	----	777,388
Shark.....	364,062	31	36,676	----	400,769	----	400,769
Sheepshead, California.....	6,919	----	165	----	7,094	----	7,094

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

	118,386	514,298	118,386	514,298	118,386	514,298
Sole, whitefish	514,298	118,386	514,298	118,386	514,298	118,386
Sole, Dover	19,654,384	3,027,313	19,654,384	3,027,313	22,081,697	22,081,697
Sole, English	2,915,830	86,135	2,915,830	86,135	3,001,965	3,001,965
Sole, petrale	3,493,822	81,723	3,493,822	81,723	3,575,245	3,575,245
Sole, sand	1,500,509	321	Sole, sand	1,500,509	1,601,110	1,601,110
Sole, sand	384,097	5,655	Sole, sand	384,097	389,152	389,152
Sole, miscellaneous	29,669	370	Sole, miscellaneous	29,669	30,057	30,057
Swordfish	251,824	18	Swordfish	251,824	260,982	260,982
Tuna, albacore	17,573,831	1,105,210	Tuna, albacore	17,573,831	21,120,211	21,120,211
Tuna, bigeye	81,723	2,315,995	Tuna, bigeye	81,723	76,130,497	97,131,711
Tuna, bluefin	191,476	23,351,750	Tuna, bluefin	191,476	191,211	192,587
Tuna, bonito	1,525,962	1,100	Tuna, bonito	1,525,962	24,877,721	30,674,428
Tuna, yellowtail	1,118	35,320,000	Tuna, yellowtail	1,118	35,320,000	125,338,388
Tuna, skipjack, black	27,000	1,082,110	Tuna, skipjack, black	27,000	1,100,110	1,143,514
Tuna, yellowfin	71,822	241,632,460	Tuna, yellowfin	71,822	241,701,982	36,781,567
Turbot	17,463	660	Turbot	17,463	18,123	18,123
Whitefish, ocean	1,469	1,357	Whitefish, ocean	1,469	1,407	1,407
Yellowtail	95,102	1,100	Yellowtail	95,102	969	969
Miscellaneous	1,17	26	Miscellaneous	1,17	258,071	258,071
Miscellaneous (animal food)	370,033	Miscellaneous (animal food)	370,033	3	3
Crustacean:						
Crab, Dungeness	1,563,006	Crab, Dungeness	1,563,006	1,563,006	1,563,006
Crab, rock	81,003	27	Crab, rock	81,003	81,530	81,530
Lobster, spiny	398,217	Lobster, spiny	398,217	398,217	398,217
Prawn, spot	20,970	Prawn, spot	20,970	20,970	20,970
Shrimps	2,443,927	46,940	Shrimps	2,443,927	2,489,370	2,489,370
Echinoderm:						
Sea urchin	78,457	Sea urchin	78,457	78,457	78,457
Miscellaneous echinoderm	1,260	Miscellaneous echinoderm	1,260	1,260	1,260
Mollusk:						
Abalone, black	1,014,892	Abalone, black	1,014,892	1,014,892	1,014,892
Abalone, green	434,828	Abalone, green	434,828	434,828	434,828
Abalone, pink	403,709	Abalone, pink	403,709	403,709	403,709
Abalone, white	1,104,062	Abalone, white	1,104,062	1,104,062	1,104,062
Abalone, threaded	1,368	Abalone, threaded	1,368	1,368	1,368
Abalone, white	143,819	Abalone, white	143,819	143,819	143,819
Octopus	10,223	239	Octopus	10,223	10,582	10,582
Oyster, eastern	9,058	Oyster, eastern	9,058	9,028	9,028
Oyster, western Pacific	874,27	Oyster, western Pacific	874,27	874,27	874,27
Squid	20,159,312	Squid	20,159,312	20,159,312	20,159,312
Miscellaneous mollusk	582	Miscellaneous mollusk	582	582	582
Total pounds	320,869,756	5,517,831	Total pounds	320,869,756	311,825,454	311,825,454
					8,174	8,174
					638,241,215	638,241,215
					207,457,940	207,457,940
					845,699,155	845,699,155

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

MAINE 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	25,590,784	25,934,015	13,229,628	138,201,573
Barracuda, California	41	31	3,797	1,051	29,171	46,440	730	177	3,527	569	644	177	13,915
Bluefish													23,580
Bonito, Pacific	552,087	292,618	121,721	351,243	775,904	1,530,984	321,145	2,232,809	7,118,096	5,500,760	2,062,260	1,451,970	22,312,827
Cabronet	750	8	268	670	393	---	92	214	428	426	2,469	138	5,853
Croaker, white	75,539	37,512	37,522	67,200	40,845	21,529	13,143	20,505	7,514	12,817	14,481	21,613	373,410
Dolphinfish	1,097	3,272	1,044	1,458	1,225	1,044	1,044	1,044	1,044	1,044	1,044	1,044	7,774
Flounder	21,788	45,983	85,546	24,734	28,642	14,745	31,311	30,327	135,218	116,335	70,351	51,730	659,710
Flounder, arrowtooth	4,941	1,467	9,131	9,165	12,047	12,047	1,149	2,126	1,061	1,561	1,833	1,077	27,127
Flying fish	---	---	---	24,155	40,058	31,463	18,533	18,533	18,533	18,533	18,533	18,533	138,889
Grenadiers	---	---	50	4,190	2,390	150	150	2,000	535	535	535	535	10,529
Hake, Pacific	1,855	714	1,296	3,456	3,919	6,922	1,149	2,126	1,061	1,561	1,833	1,077	27,127
Halibut, California	15,916	56,004	14,966	9,443	19,943	36,073	47,256	45,035	17,819	19,963	19,963	19,963	309,945
Halibut, Pacific	---	---	---	28	86	34	87	87	87	87	87	87	238
Herring, Pacific	12,000	9,700	81,332	8,000	213	195	7,230	8,264	4,209	4,209	4,209	4,209	64,023
Lingcod	69,123	89,662	125,061	120,061	257,288	439,171	500,753	533,549	427,439	360,177	111,791	136,185	3,246,186
Mackerel	5,692,300	3,888,486	4,808,530	6,415,063	542,056	1,728,000	7,000,000	9,914,000	13,429,589	8,645,257	21,816,000	93,521	51,177
Mackerel, Pacific	2,390	27,458	6,670	11,265	1,254	4,200	3,500	233	348	10,222	32,134	8,572	108,078
Mudskipper, longjaw	71	45	85	122	175	72	135	150	105	160	90	90	1,289
Opahs	121	187	253	2,495	3,649	2,260	2,320	715	900	510	1,948	1,948	15,390
Percies	10,614	11,317	27,221	25,221	11,124	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250
Pompano, Pacific	83,560	4,738	9,649	19,642	6,698	2,197	733	1,511	2,523	4,166	3,929	151,932	151,932
Quinnatfish	7,300	10,000	17,970	4,200	3,500	2,500	233	233	233	230	3,000	46,473	46,473
Koolie	30,022	1,351,640	1,491,151	1,041,000	1,260,004	1,285,004	1,445,419	1,207,310	1,843,000	1,603,773	1,562,331	1,603,773	1,603,773
Saltfish	809,946	1,058,248	743,883	490,796	560,111	533,935	633,551	693,755	684,001	1,002,437	628,474	655,199	8,305,714
Salmon	---	---	3,044	8,117	8,117	8,117	2,347	2,091	725	18,830	22,086	1,305	6,421,239
Sanddab	50,268	81,716	79,885	62,207	118,539	123,211	145,997	82,271	62,998	21,479	920,928	21,055	21,055
Sardine, Pacific	---	17,607	6,000	10,000	4,000	4,000	153,500	9,400	35,989	35,989	35,989	35,989	57,220
Sargo	---	100	229	207	220	220	110	29	188	663	663	663	866
Seabass	1,424	1,796	738	2,192	2,817	41,001	33,395	2,397	4,568	6,306	5,900	132,016	132,016
Sea bass, giant	1,231	22,505	9,705	2,115	2,302	2,347	2,091	725	18,830	22,086	1,305	7,161	95,313
Seabass, white	58,646	56,794	88,205	50,205	29,205	29,205	19,799	19,799	35,756	35,756	35,756	35,756	77,588
Shark, sandbar	30,261	25,123	10,454	10,202	23,243	37,596	47,799	47,799	47,799	47,799	47,799	47,799	33,031
Sheepshead, California	1,136	1,038	461	483	686	1,900	110	29	188	188	188	188	7,084
Skate	4,184	14,234	11,115	12,809	22,384	9,225	10,781	13,767	8,395	3,310	2,260	5,662	118,386
Sole, rock	47,731	2,611	1,676	9,153	25,166	43,675	145,201	167,201	25,891	30,161	6,940	9,941	131,988
Sole, whitetail	29	2,114	16,016	19,016	3,000	8,125	12,215	12,215	12,215	12,215	12,215	12,215	189,338
Sole, Dover	575,534	1,839,593	1,755,840	1,639,690	2,634,123	2,355,441	2,622,923	2,601,776	2,601,117	2,058,125	1,026,642	873,493	22,081,697
Sole, English	258,721	313,933	237,105	158,087	214,617	195,574	218,784	375,575	410,987	312,483	141,699	194,970	3,001,963

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.....	289	147	28	544	106	650
Cabeson.....	28,214	11,937	23,230	10,126	8,684	12,726	26,503	61,317	43,015	286,511
Flounder, arrowtooth.....	2,406	1,467	8,276	9,165	13,230	3,986	8,084	26,123	20,021	22,468	12,748	2,238	139,396
Grenadiers.....	4,152	39,680	1,914	7,844	3,057	56,647
Hallibut, California.....	49	40
Hallibut, Pacific.....	18	37	18
Lamprey.....	26,069	27,712	56,143	75,145	158,916	301,848	369,123	399,016	321,566	150,531	26,671	23,842	1,945,623
Mackerel, jack.....	10,551	75	7,984	1,622	835	118	2,742
Pike.....	8,731	3,383	11,987	10,551	75	17,938	9,346	2,784	118	60,671
Rockfish.....	388,595	507,842	591,863	387,730	400,969	490,116	614,323	559,436	496,032	578,655	291,594	4,695,258	1,449,716
Solefish.....	485,767	594,292	391,858	253,655	406,897	375,109	488,322	510,630	479,729	514,698	222,561	363,138	4,991,227
Salmon.....	114	972,342	1,039,051	1,098,551	238,481	30,587	12	3,368,058
Sealife.....	32,235	50,710	41,153	15,086	45,103	61,774	79,794	87,667	55,030	36,131	10,281	9,345	551,446
Shark, California.....	850	612	481	176	1,540	1,583	144	765	184	5,958	3,205	1,088	16,046
Skate.....	2,600	2,600	5,910	14,810	5,270	6,550	1,288	5,700	400	2,705	4,002	2,705
Smelt.....	108	50	242	9,781	26,353	108,457	144,798	16,741	216	305,746
Smelt, whitebait.....	2,646	14,813	14,465	36,481	47,763	41,207	34,246	323	1,587,469
Sole, flatfish.....	402,919	512,192	998,119	1,206,119	2,034,054	2,010,160	2,130,420	1,74,026	1,590,026	1,427,810	673,030	515,176	18,537,453
Sole, English.....	64,963	129,512	130,035	97,764	147,550	112,051	105,771	170,028	230,070	132,210	23,900	22,966	1,368,323
Sole, petrale.....	427,408	130,302	91,701	42,012	111,417	107,581	91,351	98,543	94,287	116,786	44,008	111,321	1,464,777
Sole, rex.....	117,403	131,844	115,722	95,682	154,133	99,813	114,812	131,424	126,970	84,027	34,418	39,694	1,241,944
Sole, sand.....	111,107	121,750	27,500	8,469	49,000	2,000	2,000	2,000	2,000	20,271	18,000	10,187	180,160
Sole, miscellaneous.....	516	1,845	177	836	25	4,333
Tuna, albacore.....	155	285,633	410,165	202,779	25,455	1,721	1,721
Tuna, longtail.....	342	2,207	1,887	303	15	77	270	173	270	302	180	43	5,749
Miscellaneous.....	170	16	186
Crustacean:													
Crab, Dungeness.....	251,413	99,727	79,507	36,661	96,357	54,723	21,548	23,000	543,761	1,206,869
Crab, rock.....	56,783	220,324	249,106	531,547	525,674	285,456	350,796	1,040
Shrimp, ocean.....	2,222,705

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

Mollusk:															
Octopus.....	66	152	157	154	221	136	483	829	629	1,332	150	394	4,974		
Oyster, giant Pacific.....	86,192	84,900	92,110	67,839	60,949	54,699	47,033	47,037	64,699	70,667	61,823	5,822	751,932		
Miscellaneous mollusk.....	120	65	185		
Total pounds.....	2,306,630	2,322,510	2,688,306	2,338,192	5,044,353	5,102,971	6,188,984	5,290,431	4,055,462	3,641,980	1,767,838	1,979,512	42,700,169		
Waters north of State:															
Fish:															
Pomander.....	119	505	531	397	392	425	292	12	2,640		
Bluefish, smooth.....	535	1,857	5,316	420	1,202	438	10,721		
Grenadiers.....	120	2,234	2,234	20,315	11,707	12,945	19,155	23,257	21,211	1,951	16,131	1,931	7,378		
Kingfish.....	120	1,467	2,289	26,306	26,259	16,833	37,194	137,595	70,042	25,833	21,755	510,548			
Lampfish.....	13,397	8,317	23,289	36,306	22,166	14,811	38,462	72,335	88,960	65,377	27,242	19,216	412,415		
Sabinefish.....	7,551	1,113	14,606	30,346	32,166	14,811	38,462	72,335	88,960	65,377	27,242	19,216	412,415		
Salmon.....	65	81	859	36	77	1,118		
Sandabas.....	573	173	480	514	115	1,809	478	4,142		
Sole, flat.....	31		
Sole, Dover.....	40,092	742	32,012	183,026	174,440	101,231	300,350	619,207	709,670	49,678	239,051	132,784	3,027,313		
Sole, English.....	22,763	1,845	4,073	6,113	1,537	8,661	8,178	30,320	2,645	1,306	9,124	86,135			
Sole, petrale.....	3,346	7,490	5,115	4,008	9,136	1,543	7,032	7,521	22,663	3,327	81,723				
Sole, sand.....	2,460	1,567	6,342	6,208	1,543	4,065	9,085	11,721	14,141	10,469	4,069	29,241	5,055		
Sole, sand.....	2,460	1,567	1,169	223	745	181	827	603	370			
Sole, miscellaneous.....	238	132	690			
Tuna.....	446	314			
Crustacean:															
Shrimp, ocean.....	3,614	9,440	7,680	22,531	3,578	46,843			
Mollusk:															
Octopus.....	88	123	48	259			
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	196,535	4,412,621		
Grand total.....	2,373,795	2,369,979	2,776,526	2,619,387	5,341,426	5,256,714	6,610,041	6,107,322	5,112,516	4,300,579	2,067,747	2,176,347	47,112,790		

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:													
Fish:													
Anchoa, northern	5,800	4,700	38,580	61,810	45,750	33,220	58,117	78,700	35,270	360,727
Bonito, Pacific	55	359	246	1,036	4,442	5,478
Cabazon	235	55	359	246	22	12	4,442	5,979
Cod, white	445	145	150	50	3,217	2,055	3,411	2,411	5,456	1,271	514	292	32,226
Flounders	13,060	38,958	50,601	8,845	4,110	3,165	20,953	12,033	97,313	56,384	6,506	800	311,238
Flounder, arrowtooth	2,335	320	850	760	3,555	7,820
Halibut, Pacific	4,190	2,100	3,000	6,290
Haddock, California	12,320	35,760	6,179	483	159	379	14,115	9,100	6,565	12,346	8,370	1,361	107,162
Hake	25	125
Herring, Pacific	12,000	9,700	108	21,808
Lingcod	13,594	18,078	18,574	19,563	110,467	21,621	56,125	64,387	12,928	22,766	13,269	22,025	363,695
Mackerel, jack	5	1,005	265	115	1,390
Mackerel, longtail	71	45	55	122	175	72	121	150	103	160	90	29	1,272
Perch	5,960	3,641	7,580	8,037	911	1,934	2,027	1,238	1,470	2,555	35,353
Pompano, Pacific	145	484	70	702
Rockfish	89,221	204,720	173,263	91,091	113,426	69,627	58,384	104,191	82,684	141,477	154,865	338,712	1,621,710
Sablefish	94,977	152,590	138,711	85,562	75,572	57,493	57,493	70,839	70,839	170,477	76,510	132,464	2,463,404
Salmon	125	564,911	707,299	563,015	580,001	149,129	14	8,251	4,225	227,470
Sanddab	8,663	12,455	27,300	14,875	17,056	37,500	22,180	31,452	18,290	26,113	31,315	42	42
Sardine, white	35	315	43	501
Shark	7,424	4,300	390	50	260	160	14,200	6,567	8,010	21,613	10,297	4,957	78,811
Skate	1,405	1,800	1,400	300	14,200	6,567	400	240	389	5,934
Smelt	475	816	3,148	2,633	8,185	8,314	3,018	697	2,281	300	27,635
Stellifer, shishibai	228	68	248	512	18,150	18,150	18,150	31,000	484	159
Sole, Dover	132,568	988,990	726,541	185,115	269,830	168,546	185,655	228,759	196,519	132,372	115,138	224,653	3,561,693
Sole, English	125,935	87,639	51,817	18,989	32,915	53,937	81,054	120,748	103,585	120,558	55,643	76,393	929,122
Sole, petrale	254,521	141,584	52,230	122,824	166,485	65,924	83,686	103,395	59,912	25,575	42,685	39,615	1,158,436
Sole, sand	202,300	39,220	36,000	20,000	7,000	7,000	7,000	11,000	11,000	21,000	31,000	26,000	111,011
Sole, sand	8,420	5,960	18,150	2,645	825	8,880	16,830	18,599	33,795	38,165	9,440	1,355	61,015
Sole, miscellaneous	200	8	4	851	526

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

Swordfish.....	---	---	---	---	---	---	245	---	245	---
Tuna, albacore.....	---	1,260	1,650	---	---	195,819	363,758	1,720,068	886,964	3,307,700
Tuna, yellowfin.....	---	---	---	---	450	1,700	2,013	600	440	8,411
Miscellaneous.....	---	---	---	---	165	2	---	---	561	167
Crustacean:										
Crab, Dungeness.....	35,035	38,158	21,085	4,296	6,239	16,429	---	---	151,829	59,324
Shrimp, ocean.....	---	---	30,379	90,797	7,720	---	91,526	---	---	220,322
Echinoderm:										
Sea urchin.....	20	---	---	228	217	---	439	---	---	20
Miscellaneous echinoderm.....	376	---	---	---	---	---	---	---	---	1,260
Mollusk:										
Alewife, red.....	2,148	---	2,418	1,683	3,307	3,263	6,511	4,776	1,991	4,342
Octopus.....	121	---	121	103	228	125	155	100	423	3,012
Oyster, eastern.....	1,065	1,189	463	1,133	826	1,150	559	235	1,344	864
Oyster, giant Pacific.....	3,669	3,767	3,881	4,029	4,343	3,341	11,069	14,272	10,941	12,207
Micromesistius mitchilli.....	112	20	20	24	111	111	111	111	111	111
Total pounds.....	854,157	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
Waters north of state:										
Fish:										
Tuna, albacore.....	---	---	---	---	---	---	---	191,086	---	191,086
Total pounds.....	---	---	---	---	---	---	---	191,086	---	191,086
Grand total.....	854,157	1,821,217	1,334,339	657,150	1,540,748	1,296,007	1,379,857	1,919,690	2,668,567	1,729,480
									697,326	972,191
										16,879,623
										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													
Anchova, northern.....	50	61,905	123,800	295,310	613,033	61,000	1,188,098
Bonito, Pacific.....	156	22	12	28,981	17,739	1,089	1,023	47,821
Cod.....	465	156	22	81	30,990	30,990	11,197	10,304	11,197	115
Croaker, white.....	1,996	2,218	1,739	48,660	32,189	8,375	7,603	11,046	4,138	6,682	11,197	10,304	146,147
Flounder.....	6,229	4,845	5,746	1,126	873	1,422	2,944	5,447	10,940	1,751	2,123	7,123	90,569
Halibut, California.....	171	4,715	740	2,598	822	2,014	12,943	21,659	2,122	292	423	1,059	49,556
Herring, Pacific.....	13,099	13,323	16,286	8,177	10,922	11,949	8,040	1,152	1,059	1,023	180,400
Jigging.....	13,099	14,323	16,286	4,717	10,922	11,949	12,955	6,829	15,328	36,116	45,162	68,834	273,199
Mackerel, jack.....	28	343	2,550	5,905	10,221	11,850	27,470	11,130	5,030	36,720	124,248
Pacific salmon.....	1,839	2,942	15	5	5	14,401	3,247	5,250
Pompano, Pacific.....	874	76	1,520	2,300	147	334	4,839	161
Rockfish.....	223,548	292,319	268,303	194,459	246,825	362,274	200,676	214,655	229,130	561,345	447,264	503,211	3,675,882
Sablfish.....	229,551	258,036	198,359	31,853	53,446	73,300	53,174	46,845	82,373	251,789	300,784	203,231	1,784,733
Sanddab.....	0,229	18,013	10,462	1,730	231,631	114,386	16,380	23,397	31,249	1,201	540	456	456,061
Seahorse, white.....	16	85	1,320	1,620	4,670	214	124	8,049
Shark.....	2,838	1,633	528	153	310	1,642	5,550	4,750	2,167	10,104	6,537	3,563	39,873
Skate.....	2,492	9,785	71,112	6,569	7,835	3,700	3,911	12,479	2,210	25,510	2,280	2,568	63,454
Soles.....	2,496	2,492	1,074	4,279	2,478	1,398	1,546	1,198	1,198	1,115	115	115	476
Sole, Dover.....	925	8,675	5,603	3,850	7,585	6,960	4,460	6,575	3,855	1,201	540	880	51,415
Sole, English.....	9,435	35,800	22,014	24,666	10,864	14,275	17,155	53,068	25,295	31,032	25,766	26,755	310,025
Sole, flat.....	11,755	22,705	24,405	20,694	20,753	14,150	13,088	37,504	39,910	71,135	34,620	27,240	339,011
Sole, green.....	9,574	20,415	11,415	11,045	1,045	1,045	1,045	1,045	1,045	1,750	1,750	1,750	17,515
Sole, sand.....	1,435	1,725	170	485	40	905	740	1,370	210	60	45	7,185
Sole, miscellaneous.....	198	139	15	361	163	1,195	2,041	63	728	83	225	5,388
Tuna, yellowfin.....	15	96	658,249	1,175,340	2,051,608	524,141	47,241	47,241	4,489,733
Miscellaneous.....	96	10	10	106

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

Crustacean:													
Crab, Dungeness.....	113	128	46	287	
Crab, rock.....	130	69	199	20,970	
Prawn, spot.....	2,143	1,936	1,635	4,598	5,140	5,206	
Mollusk:													
Alcyonium, red.....	150	150	
Octopus.....	144	433	567	68	50	329	1,831
Squid.....	9,251	106,875	3,706,763	6,327,106	1,765,775	121,025	107,125	61,490	45,660	3,850	12,258,515
Miscellaneous mollusk.....	60	250	310	
Grand total.....	526,485	633,071	594,596	493,507	4,446,707	6,978,811	2,813,898	1,878,343	2,782,121	1,902,577	1,882,111	983,684	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: Commercial Waters:													
Fish:													
Ancovy, northern.....	5,294,675	4,077,290	1,170,900	127,200	1,143,500	36,400	47,200	1,703,000	3,528,500	5,040,300	2,969,450	2,338,600	27,476,975
Barracuda, California.....	4	3	18	241	18	18	21	628	220	1,108,993	683,657	539,737	177,880
Bonito, Pacific.....	26,816	41	30	545	34	25	19	19	19	426	1,332	275,457	2,606,149
Cod, California.....	1,025	20	25	1	1	1	1	500	1	1	1	1	1,029
Croaker, white.....	1,925	1	1	1	1	1	1	1	1	1	1	1	2,445
Flounder.....	557	4,833	2,635	200	1	1	1	1	1	38	6	5	168
Fluke, Pacific.....	2,255	2,225	60	5,244	1,255	12,255	12,255	5,031	5,031	5,031	5,031	5,031	875
Gilt-head, California.....	15,532	27,547	25,778	30,527	51,094	82,526	43,385	44,781	49,399	94,645	26,141	26,651	515,509
Mackerel, jack.....	366,900	266,600	1	1	1	1	1	1	1	1	1	1	771,916
Perch.....	1,151	1,184	1,008	3,055	35	20	1,074	1,420	1,005	2,271	1,003	1,393	14,599
Pompano, Pacific.....	110	215	1	1	1	1	1	1	1	1	1	1	2,345
Porgy.....	97,200	216,844	30,180	296,382	301,682	331,901	299,464	305,021	211,351	354,379	315,972	250,382	3,200,725
Sabinefish.....	1	1	225	1,215	3,737	2,725	1,425	965	1	25	630	1	10,947
Salmon.....	1	1	1	1	1	1	1	1	1	1	1	1	130,024
Sanddab.....	95	280	127	1	1	1	1	1	1	1	1	1	517
Seal, giant.....	49	1	1	1	1	1	1	1	1	1	1	1	958
Seabass, white.....	4,423	517	2,159	1,266	2,945	4,119	4,510	10,056	21,482	9,834	13,272	2,610	77,195
Shark.....	6,151	3,068	3,068	4,082	9,047	11,600	9,535	6,706	2,584	5,310	9,352	3,122	74,573
Shrimps, California.....	97	1	1	16	1	1	10	12	1	16	13	1	164
Skate.....	297	40	1	1	1	1	1	1	1	1	1	1	452
Smelt.....	41,750	30	1	1	1	1	1	1	1	1	1	1	41,750
Sole, Dover.....	1,09	1	1	1	1	1	1	1	1	1	1	1	62,793
Sole, green.....	58,489	37,979	24,300	21,250	30,735	16,525	9,655	7,055	1,065	20,317	21,035	36,200	388,856
Sole, petrale.....	14,465	23,205	60,065	85,833	60,100	55,631	20,525	32,795	57,140	68,100	15,237	7,952	531,181
Sole, rex.....	4,440	4,800	7,867	15,715	17,137	2,449	1,395	1,085	3,425	3,520	5,165	6,022	73,120
Sole, sand.....	6,109	8,865	4,640	200	3,007	3,645	1,235	1,235	1,235	1,235	1,235	1,235	28,737
Sole, vermicular.....	1,09	1	1	1	1	1	1	1	1	1	1	1	111
Swordfish.....	1	1	1	1	1	1	1	1	1	1	1	1	34,320
Tuna, albacore.....	1	1	1	1	1	1	1	1	1	1	1	1	3,925,400
Turbot.....	1	1	1	1	1	1	1	1	1	1	1	1	2,543
Yellowtail.....	1	1	1	1	1	1	1	1	1	1	1	1	207
Miscellaneous.....	1	1	185	1	1	1	1	1	1	1	1	1	187
Miscellaneous (animal food).....	38,925	63,160	20,820	20,140	50,113	20,025	36,380	30,080	15,975	34,050	20,150	21,335	370,053

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

Crustacean:															
Crab, Dungeness.....	92	375	1,516	6,307	4,627	1,137	15,657	17,288	12,563	11,608	1,047	5,714	20,815		
Crab, rock.....	16,695	30,836	22,247	12,628	9,133	11,867	15,657	17,288	12,563	16,497	15,831	17,144	191,094		
Lobster, spiny.....	14,533	13,359	8,089	10,394	23,946	10,394	87,308		
Echinoderm:															
Sea urchin.....	2,490	4,700	43,242	382	1,884	10,456	72,351		
Mollusk:															
Alewife, black.....	13,544	15,850	95,820	145,548	284,238	56,506	450	54,496	18,569	23,062	144,713	832,615		
Alewife, green.....	12	22,111	12,331	7,715	587	15,955	458	1,066	213	650	670	3,238		
Alewife, pink.....	10,708	84,405	98,306	71,008	50,032	94,830	1,668	11,395	11,109	21,109	8,320	230,000		
Alewife, white.....	131,735	5,560	96,506	54	46	351	113,955	287	257	187	108,871	61,549	941,119		
Alewife, threaded.....	6	1,188		
Alewife, white.....	12	128	15	155		
Octopus.....	122	56	25	162	152	315		
Oysters, East Pacific.....	5,736	4,128	1,170	2,890	8,557	6,115	28,586		
Squid.....	516,535	225,150	1,767,750	338,940	434,360	361,400	3,641,432	
Total pounds.....	5,800,585	5,420,975	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	46,516,955		
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	46,516,954		

MARINE LANDINGS
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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	4,567,538	7,676,728	5,539,932	805,657	648,569	292,682	270,472	20,219,904	22,321,532	10,827,023	109,174,438
Barnacles, California.....	---	---	3,475	763	916	629	80	3,454	18	30	30	4,401	2,860
Blacksmith.....	---	---	137	3,345	29,442	46,440	40,011	46,875	47,345	5,820,151	4,064,754	1,386,231	12,279,945
Bonefish.....	240,444	38,790	137	3,345	18,680	7,378	12,362	2,453	5,210	1,190	2,116	2,010	10,335
Croaker, white.....	71,173	34,508	35,611	18,680	7,378	12,362	2,453	5,210	1,190	2,116	2,010	10,335	203,026
Dolphinfish.....	---	---	---	---	---	---	35	150	---	---	---	---	150
Flounder.....	---	---	---	---	24,543	40,988	51,089	12,795	---	---	---	---	35
Goby.....	---	---	---	---	---	150	210	---	---	---	---	---	360
Hake, Pacific.....	---	---	195	395	3,096	2,737	1,000	---	---	400	---	---	5,914
Hallibut, California.....	327	3,130	1,876	2,833	10,822	10,190	4,055	5,969	43	6	73	40,164	161
Herring.....	69	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Mackerel, jack.....	5,692,755	3,163,457	4,535,849	646,160	532,435	1,724,177	6,961,984	9,854,614	13,391,527	641,687	2,090,110	981,153	50,216,201
Mackerel, Pacific.....	2,000	27,486	6,670	10,670	984	787	---	---	190	18,000	32,134	8,540	105,462
Mackerel, longjaw.....	---	---	---	---	---	---	---	---	3	---	---	---	2
Oakley.....	---	---	238	3,105	3,450	2,260	2,230	715	900	410	1,948	15,902	161
Percy.....	99	223	2,101	2,551	7,677	10,949	93	235	395	435	180	1,163	124,939
Pompano, Pacific.....	83,450	4,738	9,430	19,642	6,658	1,155	95	261	418	3,859	3,629	13,250	146,935
Quillfish.....	7,500	100	100	4,200	1,200	250	250	250	250	250	250	250	472
Rockfish.....	62,485	98,480	62,774	50,291	39,185	57,626	10,505	26,618	30,770	56,603	59,784	109,071	663,025
Sablefish.....	---	---	84	159	148	313	212	130	---	118	42	---	1,206
Sanddab.....	60	---	---	---	---	79	220	---	---	---	---	---	359
Sardine, Pacific.....	---	14,757	3,245	8,988	3,060	42,935	135,791	9,450	20,075	12,750	22,906	52,463	329,909
Sharpnose.....	---	---	100	207	207	230	110	---	---	637	---	---	637
Solepin.....	12	---	987	235	843	1,023	89	431	388	613	574	5,195	5,195
Sea bass, giant.....	242	662	888	1,156	1,509	36	43	43	43	3,938	8,475	2,455	2,455
Sea bass, white.....	155	187	82	5,621	1,027	10,627	7,065	13,120	52,255	8,863	2,455	2,455	2,455
Shark.....	2,383	1,949	4,122	5,221	9,927	9,461	3,059	15,033	6,944	4,283	8,175	11,071	74,747
Sheepshead, California.....	71,907	972	445	392	194	1,768	40	---	14	20	125	4,544	4,544
Skate.....	907	9	---	392	---	155	320	---	60	---	---	---	544

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

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Sole.....	170	402	2,048	4,560	8,630	31,050	20,355	6,290	29,410	6,825	9,791	119,901	
Sole, Dover.....	835	335	128	1,050	
Sole, English.....	1,225	128	1,353	
Sole, petrale.....	14	153	350	35	563	
Sole, sand.....	35	49	
Sole, miscellaneous.....	41	40	470	32	0	164	240	611	
Swordfish.....	1,067	1,980	14,856	33,665	39,802	30,785	240	122,559	
Tuna, albacore.....	535	545,095	257,126	877,001	1,484,540	294,650	3,829,955	
Tuna, longfin.....	8,014	18,192	52,244	54,025	312,623	1,536,706	
Tuna, skipjack.....	41,200	41,200	
Tuna, skipjack, black.....	27,000	27,000	
Tuna, yellowfin.....	110	250	59,895	315	60,210	
Tuna, white.....	57	57	
Whitefish, ocean.....	544	371	734	163	29,573	2,545	3,102	21,349	56,884	
Miscellaneous.....	10	2	196	1	61	278	
Crabs:													
Crab, rock.....	42,436	46,133	41,271	47,773	42,737	49,383	59,990	66,195	58,247	76,429	44,107	51,033	
Lobster, spiny.....	19,570	27,179	15,598	43,083	43,475	24,808	
Mollusk:													
Alabone, black.....	300	1,255	187	12,440	24,032	47,044	9,701	337	8,440	2,551	3,124	20,399	
Alabone, green.....	38,715	175	7,347	5,594	42,113	35,100	38,733	431	32,471	17,335	18,474	23,823	
Alabone, pink.....	5,173	163	20,131	44,588	6,887	8,666	11,400	18,963	15,277	13,362	12,014	
Alabone, red.....	2,703	18	2,070	2,151	1,151	150	150	150	2,703	
Alabone, white.....	4,312	4,968	5,561	19,627	13,538	9,835	57,541	
Octopus.....	10	135	2	47,100	43	190	
Squid.....	123,600	1,479,950	579,350	434,150	313,350	746,300	218,100	110,500	203,900	4,256,100	21	
Miscellaneous mollusk.....	27	27	
Total pounds.....	26,434,625	20,991,193	9,936,537	9,002,496	6,667,678	3,792,921	8,940,537	11,417,334	21,169,359	27,073,727	26,431,843	13,543,598	
												185,302,138	
Total pounds.....	26,434,625	20,991,193	9,936,537	9,002,496	6,667,678	3,792,921	8,940,537	11,417,334	21,169,359	27,073,727	26,431,843	13,543,598	
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	22,030	218,865	594,243	1,218,258	235,810	1,788,131	101,670	347,485	4,758	4,871,691
Dolphinfish.....	1,060	9	88	88	2,241	
Hammerhead, California.....	1,060	80	80	
Mackerel, jack.....	45	575	620	
Perch.....	134	100	177	575	411	

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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													
Pacific, Pacific.....	90	90
Rockfish.....	480	470	203	5,888	68	855	38	160	8,102	239
Sargo.....	239
Seabass, black.....	1,947	21,404	7,076	1,630	1,387	78	15,830	21,473	1,108	3,253	76,566
Seabass, white.....	13,932	65,848	55,767	21,078	5,497	480	2,001	3,304	1,362	1,651	168,920
Shark.....	600	20	600
Sheephead, California.....	145	155
Tuna, albacore.....	1,670	29,010	2,772,520	1,087,267	5,288,386	2,202,702	2,349,075	189,323	610,221
Tuna, bigeye.....	158,215	187,223
Tuna, bluefin.....	7,420	14,014,693
Tuna, skipjack.....	4,558	1,053,186	1,624,813	1,479,732	41,610,093	1,010,501	4,339,235	2,306,101	374,708	262,289	1,724,902	5,117,364	24,253,575
Tuna, skipjack, black.....
Tuna, yellowfin.....	3,390,114	20,713,370	25,834,666	28,889,755	29,992,729	20,891,798	18,190,426	12,546,531	8,479,748	16,577,878	7,388,646	2,108,245	191,703,898
Wahoo.....	197	460	246	893
Weakfish.....	70	169	29	88
Yellowtail.....	4,748	23,503	10,587	4,374	1,968	8,140	2,680	10,032	24,016	24,071	114,019
Total pounds.....	3,642,581	22,150,990	27,511,209	30,615,780	35,390,143	26,830,797	23,909,933	22,113,322	11,605,917	19,631,178	9,318,627	7,254,909	239,933,196
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	3,694,738	3,021,836	2,830,942	12,842,776	16,940,050	7,569,561	3,835,256	8,024,452	3,447,054	70,849,199
Tuna, bigeye.....	8,405	1,978	62,232	4,924	4,926	23,630	77,025	183,220
Tuna, bluefin.....	1,114,135	69,385	101,055	52,040	548,157	52,040	1,114,135	183,333
Tuna, skipjack.....	4,875,974	2,886,161	12,424,885	8,303,417	8,142,295	7,171,533	5,654,376	5,335,095	4,373,546	7,270,589	4,054,357	5,016,482	79,825,760
Tuna, skipjack, black.....	62,355	120,240	25,068	1,410	1,450	170,846	41,530	423,159
Tuna, yellowfin.....	2,319,515	327,664	3,219,710	3,863,560	3,376,186	2,639,568	2,950,152	1,584,052	3,628,523	1,584,052	2,495,860	3,013,533	31,973,419
Total pounds.....	9,598,495	4,184,313	20,947,311	30,417,654	14,571,660	12,763,065	22,426,623	27,731,373	16,429,993	13,157,310	14,620,049	11,553,594	188,401,040
Grand total.....	39,675,701	47,245,496	58,395,057	60,635,930	56,638,481	43,394,557	55,277,083	61,281,939	49,391,727	60,556,407	50,360,519	32,352,301	614,585,598

* For origin of shipments refer to Table 6. Beginning in 1955 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:													
Anchova, northern.....	29	120	994	—	28	113	—	73	—	203	—	—	1,284
Barracuda, California.....	41	28	292	258	937	430	724	97	73	551	203	—	3,634
Bass, Pacific.....	39	8	135	15	97	170	47,765	1,944	31,027	28,019	765	20,268	130,318
Caballa.....	—	8	—	—	—	—	—	—	—	50	—	—	88
Croaker, white.....	—	626	42	—	185	45	—	138	—	50	530	—	1,568
Dolphinfish.....	294	940	—	—	—	—	—	—	10	173	—	—	1,417
Flounder.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Herring.....	1,955	714	1,103	3,156	2,833	4,183	1,149	1,126	980	1,567	1,343	1,077	21,208
Hillside, California.....	1,608	1,463	1,201	4,039	7,149	2,500	547	4,025	1,532	611	396	23,027	—
Lingcod.....	—	82	—	55	—	—	—	20	—	100	—	—	257
Mackerel, jack.....	32	28	—	—	—	—	—	60	—	—	—	—	398
Mackerel, little.....	390	—	—	—	895	270	150	260	160	215	217	—	2,494
Opah.....	121	—	187	—	—	—	—	—	—	—	—	—	308
Percy.....	4	2,606	2,643	1,056	3,730	597	1,343	4,848	2,290	1,605	639	1,450	23,330
Porgy, Pacific.....	—	—	—	—	—	—	—	80	—	—	—	—	80
Rockfish.....	54,002	86,400	63,934	69,839	76,310	40,668	32,376	34,240	26,061	38,071	28,024	33,740	587,762
Sablefish.....	282	—	—	—	—	—	—	—	—	—	—	—	282
Salmon.....	—	—	40	—	—	—	19	22	—	—	—	—	271
Sardine, Pacific.....	2,900	3,550	517	7,621	—	—	—	—	15,733	6,200	9,400	—	45,921
Sculpin.....	1,412	1,726	739	1,205	488	12,009	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	—	—	3,048
Seabass, white.....	20,031	19,031	21,450	23,388	6,170	11,569	7,800	4,640	14,098	8,995	13,001	38,705	221,555
Shark.....	6,814	1,283	854	1,186	4,569	14,214	11,740	8,292	13,591	2,873	6,231	8,286	79,912
Sheepshead, California.....	132	66	—	91	347	122	50	17	188	633	56	176	1,878
Smelt.....	—	—	—	—	—	—	19	30	—	—	—	—	150
Sole.....	—	46	334	90	—	—	—	—	118	4	—	—	199
Sole, miscellaneous.....	50	132	122	59	117	361	21	18	114	15	204	18	534
Swordfish.....	—	—	—	—	2,095	877	25,245	52,563	22,801	817	—	—	10,000
Tuna, albacore.....	—	—	—	—	—	21,059	27,325	157,300	192,200	1,064,321	80,381	668	1,790,070
Tuna, skipjack.....	—	—	—	—	—	—	90	106	—	—	—	—	254
Tuna, yellowfin.....	—	—	—	—	—	—	26	14	—	—	—	—	218
Whiting, ocean.....	278	123	—	11,272	—	—	—	—	—	—	—	—	11,312
Yellowtail.....	40	—	411	334	2,457	3,528	970	1,491	7,860	2,773	6,995	8,692	35,561
Miscellaneous.....	—	—	—	—	28	132	12	—	33	20	—	—	225

SEA FISH LANDINGS
MAY 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	1,440	140	5,051	2,473	2,556	25,305
Lobster, spiny.....	11,207	10,361	8,204	56,841	32,473	18,020	137,196
Echinoderm:													
Sea urchin.....	1,728	2,358	4,086
Mollusk:													
Ahalone, black.....	69	12	1,404	10,220	14,944	2,874	1,750	221	350	404	32,269	P.F.S.
Ahalone, pink.....	24,621	8,862	25,397	10,000	10,000	2,874	2,157	2,157	7,659	17,238	13,525	108,129
Ahalone, pink.....	18,402	15,442	13,510	14,717	6,975	4,123	579	5,415	12,338	5,763	4,719	107,350
Ahalone, red.....	12,937	13,336	9,793	14,416	4,962	17,725	17,984	5,636	6,535	5,534	120,086
Ahalone, red.....	4	59	20	120
Ahalone, white.....	25,470	10,883	9,820	2,129	3,416	3,722	991	2,170	3,935	13,803	4,783	86,123
Octopus.....	13	26	26	26	12	6	3	9	6	3	12	13
Oyster, giant Pacific.....	13	26	26	26	12	6	3	9	6	3	12	154
Squid.....	150	257	499
Total pounds.....	200,889	135,781	159,339	156,001	180,826	163,516	467,936	323,303	364,122	1,240,437	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.....	58,636	99,280	98,459	128,375	181,453	312,334	11,097	416	51	26,228	354,190	120,410	24,846
Baitfish.....	51
Dolphinfish.....	310	1,102	42	1,504	21	69	128	244	3,657
Hallibut, California.....	49	42	21	44	6
Mackerel, California.....	62	162
Mackerel, Pacific.....	43	43
Perch.....	32
Rockfish.....	9,020	12,219	1,735	4,637	1,783	1,169	388	1,943	200	377	541	34,012
Solefish.....	2,094	27,549	19,438	20,323	236	370	113	70,320
Sea bass, giant.....	1,441	1,269	524	483	128	4,328

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TABLE 14

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

MARINE LANDINGS
1972

Seabass, white.....	15,110	10,509	6,720	314	524	3,889	14,496	5,671	868	57,577	
Shad.....	8,581	12,248	564	2,223	2,875	7,325	74	36,078	
Sea robin.....	18	18	
Swordfish.....	120	2,256	1,982	4,358	
Tuna, albacore.....	2,996	579,470	378,380	280,171	285,018	177,180	653	1,703,498
Tuna, bigeye.....	947,294	1,232,395	2,709,351	1,775,314	4,251	...
Tuna, skipjack.....	163,445	645,013	1,045,795	776,505	1,683,660	2,314,269	2,241,537	1,065,971	260,574	1,814,203	801,085	9,269,390	
Tuna, skipjack, black.....	115,378	993	118,366	
Tuna, yellowfin.....	183,017	8,775,031	7,096,539	10,102,632	7,407,543	4,212,765	1,373,440	1,012,504	3,076,846	495,735	1,007,261	67,1844	46,820,561
Wahoo.....	465	278	171	914
Whitefish, ocean.....	2,314	1,227	102	493	1,906	544	36	277	2,553	8,635	21,737	9,147	48,950
Yellowtail.....	26	36
Crustacean:													
Crab, rock.....	27	27
Total pounds.....	441,874	9,560,917	8,242,161	11,018,554	9,368,829	8,293,054	5,467,372	6,165,114	5,414,962	3,122,525	3,149,220	1,595,737	71,849,919
SHIPMENTS:^a													
FISH:													
Tuna, albacore.....	189,181	275,681	40,750	422,828	350,914	...	2,199,640	1,325,561	77,531	408,152	...	8,060	5,251,298
Tuna, bluefin.....	7,991	7,991
Tuna, skipjack.....	2,061,546	250,631	1,028,359	954,472	1,867,084	...	221,759	660,213	3,478	84,964	...	861,288	7,995,794
Tuna, skipjack, black.....	11,142,470
Tuna, yellowfin.....	...	680,548	930,431	92,300	1,621,660	221,324	411,659	232,123	91,048	126,313	158,343	1,142,470	5,705,148
Total pounds.....	2,230,727	1,209,860	1,999,559	1,469,009	3,847,049	221,324	2,838,058	2,269,301	172,057	619,929	158,343	2,023,083	19,056,900
Grand total.....	2,073,490	10,506,559	10,401,080	12,644,164	13,405,704	8,078,494	8,771,366	6,375,718	5,974,215	4,991,891	3,538,884	3,794,299	94,737,843

^a 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	\$25,767	\$24,263	\$364,475	\$1,260,196	\$213	\$1,677,014	
Blacksmith	—	—	880	—	3,634	13,155	
Bonito, Pacific	650	5,478	47,821	2,837,149	17,651,636	1,969,893	22,312,627
Cabezon	\$85	\$335	\$3,442	\$224,286	\$1,628,816	\$198,353	\$2,055,517
Croaker, white	476	979	2,251	2,089	—	58	5,853
Dolphinfish	\$24	\$104	\$164	\$83	—	\$7	\$382
Flounder	20,226	146,147	2,445	203,026	1,566	373,410	
Grenadiers	—	—	339	2,371	5,074	7,784	
Hake, Pacific	64,023	—	—	—	—	—	
Herring, Pacific	\$3,204	9,290	—	875	360	—	10,525
Haddock	—	—	—	\$18	\$18	—	\$264
Haddock	—	—	—	—	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	213	22	—	—	—	—	235
Herring	\$86	\$7	—	—	—	—	\$93
Herring, Pacific	—	21,883	103,840	—	—	—	125,448
Lingcod	2,062,353	393,695	273,199	515,899	1,083	257	3,246,188
Mackerel, jack	\$215,980	\$36,007	\$34,115	\$52,348	\$211	\$33	\$335,694
Mackerel, Pacific	2,742	1,390	124,246	771,916	50,216,821	458	51,117,573
Mackerel, longjaw	\$139	\$70	\$10,503	\$32,282	\$2,109,810	\$53	\$2,152,857
Mudskipper	—	—	—	—	105,468	2,612	108,078
Opah	—	—	—	—	\$6,006	\$507	\$6,513
Perch	69,004	35,353	5,228	14,589	2,041	23,388	113,383
Pompano, Pacific	\$13,335	\$12,177	\$1,072	\$1,514	\$6,967	\$6,163	\$14,298
Queenfish	—	—	—	—	15,082	308	15,390
Rockfish	6,537,176	1,621,710	3,877,582	3,291,223	671,787	621,774	16,421,252
Sablefish	\$455,700	\$132,657	\$330,693	\$291,015	\$140,780	\$139,435	\$1,490,289
Sablefish	5,403,642	1,194,904	1,784,733	10,947	1,206	282	8,395,714
Salmon	\$430,938	\$84,983	\$132,501	\$738	\$281	\$23	\$649,464
Salmon	3,369,156	2,503,404	420,664	130,024	—	41	6,423,289
Sanddab	\$2,338,913	\$2,027,319	\$357,108	\$106,861	—	\$31	\$4,829,782
Sardine, Pacific	525,113	227,470	167,091	517	359	272	422,222
Sardine, Pacific	\$63,147	\$26,528	\$16,636	\$81	\$51	\$68	\$105,514
Sargo	—	—	—	—	326,309	45,921	372,230
Sargo	—	—	—	—	\$48,941	\$11,334	\$60,275
Sole, Dover	16,077	78,811	39,873	74,673	412,391	279,262	777,388
Sole, English	\$1,134	\$4,085	\$2,375	\$10,107	\$12,993	\$26,681	\$56,773
Skate	—	—	—	—	5,642	1,878	7,504
Smelt	48,002	5,934	63,454	452	544	—	118,386
Smelt	\$1,173	\$153	\$1,470	\$35	\$80	—	\$2,916
Smelt, whitebait	306,746	27,435	18,367	41,750	119,801	199	514,298
Sole, Dover	18,384,776	3,551,693	51,415	92,793	1,020	—	22,081,697
Sole, English	\$1,504,302	\$291,894	\$3,284	\$8,116	\$92	—	\$1,807,688
Sole, English	1,454,458	929,122	310,025	307,007	1,353	—	3,001,965
Sole, English	\$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	202,411	52,115	73,120	49	-----	1,681,610
	\$181,302	\$25,164	\$5,113	\$9,074	\$8	-----	\$200,961
Sole, sand.....	192,215	161,115	7,185	26,737	-----	-----	395,222
	\$24,166	\$20,712	\$800	\$1,144	-----	-----	\$50,222
Sole, miscellaneous.....	7,802	913	5,258	14,224	611	1,249	30,057
	\$554	\$130	\$675	\$1,479	\$123	\$415	\$3,381
Swordfish.....	-----	245	-----	34,320	122,559	108,858	285,982
	-----	\$147	-----	\$19,132	\$72,997	\$67,361	\$159,637
Tuna, albacore.....	936,032	3,398,788	4,452,673	3,928,400	4,768,880	3,516,643	21,001,214
	\$297,965	\$1,080,891	\$1,424,023	\$1,258,159	\$1,626,355	\$1,186,755	\$6,884,054
Tuna, bigeye.....	-----	-----	-----	187,225	-----	4,251	191,476
	-----	-----	-----	\$10,812	-----	\$939	\$41,751
Tuna, bluefin.....	-----	-----	-----	15,540,401	9,337,320	24,877,721	-----
	-----	-----	-----	\$3,341,234	\$1,967,421	\$5,311,655	-----
Tuna, skipjack.....	-----	-----	-----	24,294,775	11,850,105	35,944,884	-----
	-----	-----	-----	\$4,896,443	\$2,355,346	\$7,215,892	-----
Tuna, skipjack, black.....	-----	-----	-----	27,744	116,386	1,109,10	-----
	-----	-----	-----	\$76,159	\$1,727	\$1,386	-----
Tuna, yellowfin.....	-----	-----	-----	194,764,106	46,940,876	241,704,982	-----
	-----	-----	-----	\$42,970,725	\$10,376,097	\$53,346,822	-----
Turbot.....	6,409	8,811	-----	2,543	380	-----	18,123
	\$765	\$551	-----	\$204	\$54	-----	\$1,574
Wahoo.....	-----	-----	-----	893	914	-----	1,807
Whitefish, ocean.....	-----	-----	-----	\$186	\$182	-----	\$371
Whitefish, ocean.....	-----	-----	-----	862	1,707	-----	2,569
Whitefish, ocean.....	-----	-----	-----	\$105	\$218	-----	\$323
Yellowtail.....	-----	-----	-----	267	172,903	84,801	258,071
	-----	-----	-----	\$103	\$23,887	\$14,982	\$38,972
Miscellaneous.....	188	167	106	187	276	251	1,173
	\$13	\$1	\$10	\$4	\$89	\$80	\$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	-----	-----	\$588,536
Crab, rock.....	1,040	-----	199	191,094	625,645	25,552	843,530
Lobster, spiny.....	-----	-----	10	\$20,349	\$91,877	\$4,033	\$116,269
Prawn, spot.....	-----	-----	-----	87,308	173,713	137,196	398,217
Shrimp, ocean.....	2,289,548	220,322	-----	-----	\$131,109	\$273,289	\$217,621
	\$340,436	\$35,094	-----	-----	-----	-----	\$622,019
-----	-----	-----	-----	20,970	-----	-----	20,970
-----	-----	-----	-----	\$22,707	-----	-----	\$22,707
-----	-----	-----	-----	-----	-----	-----	2,489,870
-----	-----	-----	-----	-----	-----	-----	\$373,530
Echinoderm:							
Sea urchin.....	-----	20	-----	72,351	-----	4,086	76,457
	-----	\$2	-----	\$3,945	-----	\$504	\$1,451
Miscellaneous echinoderm.....	-----	1,260	-----	-----	-----	-----	1,260
	-----	\$381	-----	-----	-----	-----	\$381
Mollusk:							
Abalone, black.....	-----	-----	-----	852,615	130,008	32,268	1,014,892
	-----	-----	-----	\$145,116	\$21,382	\$7,444	\$173,912
Abalone, green.....	-----	-----	-----	3,228	259,814	161,786	424,828
Abalone, pink.....	-----	-----	-----	\$1,505	\$125,869	\$88,215	\$215,589
Abalone, pink.....	-----	-----	-----	138,600	156,980	108,129	403,709
Abalone, red.....	-----	33,098	150	944,119	19,745	107,350	1,104,462
	-----	\$15,420	\$90	\$184,762	\$9,823	\$52,310	\$562,405
Abalone, threaded.....	-----	-----	-----	1,188	-----	680	1,868
Abalone, white.....	-----	-----	-----	\$419	-----	\$205	\$624
Octopus.....	5,233	3,097	1,531	518	190	13	10,582
	\$519	\$264	\$381	\$62	\$35	\$4	\$1,355
Oyster, eastern.....	-----	9,028	-----	-----	-----	-----	9,028
	-----	\$265	-----	-----	-----	-----	\$26,543
Oyster, giant Pacific.....	751,832	95,955	-----	29,588	-----	154	876,127
	\$651,094	\$83,132	-----	\$24,870	-----	-----	\$762,096
Squid.....	-----	-----	12,256,278	3,644,435	4,256,100	499	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	\$1,555,255	\$2,019,125	\$3,563,929	\$59,296,245	\$17,057,730	\$50,044,984

3—86283

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:^a							
Fish:							
Tuna, albacore.....	70,849,199	5,281,298	76,130,497
					\$29,860,981	\$2,137,082	\$31,998,663
Tuna, bigeye.....	183,220	7,991	191,211
					\$49,907	\$1,798	\$51,705
Tuna, bluefin.....	6,045,303	51,404	6,096,707
					\$1,710,536	\$10,846	\$1,721,682
Tuna, skipjack.....	79,826,760	7,996,793	87,823,554
					\$19,666,057	\$1,969,227	\$21,635,284
Tuna, skipjack, black..	423,139	11,265	434,404
					\$37,006	\$945	\$37,005
Tuna, yellowfin.....	31,173,418	5,708,148	36,781,587
					\$10,229,403	\$1,800,635	\$12,030,638
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	\$3,563,929	\$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.....	751,832	654,094
Dungeness crab.....	462,009	246,917
Rockfish.....	2,959,965	198,890
Sablefish.....	2,102,161	187,646
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.....	387,721	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.....	95,852	14,378
Whitebait smelt.....	36,744	4,151
Smelt.....	10,107	2,749
Arrowtooth flounder.....	50,284	2,522
Sanddab.....	8,821	1,061
All other species.....	27,273	1,890
Port totals.....	10,632,333	\$1,068,078
Crescent City		
Salmon.....	503,128	\$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	72,230
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.....	36,157	4,085
All other species.....	68,959	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.....	29,140	\$18,522
All other species.....	4,489	560
Totals.....	33,638	\$19,082
EUREKA AREA TOTALS.....	47,112,790	\$7,652,700

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.....	1,303,355	\$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.....	215,452	32,062
Petrale sole.....	145,689	23,824
Sablefish.....	303,878	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.....	982,308	160,632
Salmon.....	142,285	116,208
Dungeness crab.....	149,206	101,814
Rockfish.....	1,009,963	81,338
English sole.....	566,066	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	29,069
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	4,500
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.....	48,661	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	\$10,630
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.....	9,041,166	\$653,201
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.....	2,370,734	\$761,551
Salmon.....	380,417	322,604
Squid.....	2,534,188	80,456
Northern anchovy.....	1,075,208	21,958
Pacific herring.....	102,332	13,410
English sole.....	87,736	9,605
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.....	1,845,351	163,061
Red abalone.....	219,687	112,799
Petrale sole.....	287,245	49,165
Salmon.....	51,364	42,690
Lingcod.....	385,699	39,159
Giant Pacific oyster.....	28,586	24,870
Dungeness crab.....	16,225	11,460
English sole.....	63,960	6,869
California halibut.....	10,751	5,507
White seabass.....	10,084	5,363
Sea urchin.....	69,561	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	\$1,509,822
Santa Barbara		
Red abalone.....	640,542	\$328,800
Black abalone.....	823,405	140,162
Rockfish.....	1,145,397	68,951
Spiny lobster.....	52,832	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	16,760
English sole.....	130,749	14,064
Rock crab.....	122,272	13,021
Rex sole.....	46,879	5,817
Salmon.....	6,165	5,290
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 Hueneme		
Northern anchovy.....	27,476,975	\$364,475
Pacific bonito.....	2,258,205	102,086
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	1,974
Red abalone.....	3,491	1,792
Swordfish.....	3,118	1,738
Pink abalone.....	2,347	1,269
White seabass.....	2,409	1,281
All other species.....	55,850	2,180
Port totals.....	34,261,356	\$669,267
Avila		
Albacore.....	698,387	\$223,674
Salmon.....	72,595	58,872
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	2,400
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
Rock crab.....	17,374	1,905
Pacific bonito.....	20,575	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	\$12,922,551
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.....	4,082,619	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.....	71,795	4,089
All other species.....	1,100	21
Total landings.....	404,213,945	\$57,156,852
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	49,907
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.....	568,534	122,346
Squid.....	4,255,000	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.....	40,060	19,632
White croaker.....	202,588	16,161
Northern anchovy.....	1,174,679	13,558
Shark.....	71,357	12,316
Red abalone.....	19,745	9,823
Black skipjack tuna.....	92,063	7,063
Smelt.....	96,521	4,916
Opatleye.....	15,082	3,905
California barracuda.....	9,144	3,278
Sculpin.....	4,871	2,002
Pacific mackerel.....	33,471	1,800
Perch.....	13,172	1,877
Halfmoon.....	5,914	1,453
Skipjack tuna.....	5,517	1,064
All other species.....	71,061	3,845
Port totals.....	16,567,737	\$1,806,502

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
Blacksmelt.....	67,880	2,372
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.....	585	329
Port totals.....	195,424	\$6,412
Malibu		
Landings		
Spiny lobster.....	1,457	\$2,202
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	\$10,376,059
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.....	522,844	117,188
Green abalone.....	161,224	87,909
Swordfish.....	108,131	66,011
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	2,842
Giant sea bass.....	7,198	1,143
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	\$2,137,052
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.....	13,963	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.....	210,472	\$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.....	94,737,643	\$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	443,204	892,697	470,840	372,246	358,518	373,801	50,474	38,343
Bass, largemouth	1,102,260	1,000,200	1,040,200	1,040,200	1,040,200	1,040,200	1,040,200	1,040,200	92,000	92,000
Bonito, Pacific	775,719	1,298,804	806,325	644,415	349,052	1,102,950	1,130,241	651,598	152,795	415,984
Cabazon	7,726	1,491	5,775	10,293	5,419	4,349	4,583	6,372	4,611	11,452
Hallibut, California	128,200	141,495	118,100	88,500	63,500	29,500	29,500	10,500	4,500	4,500
Lingcod	27,513	25,203	33,200	44,676	43,550	42,449	32,603	61,533	63,259	103,565
Mackerel, jack	9,342	6,577	25,619	19,027	16,235	13,588	11,273	15,725	10,511	5,913
Mackerel, Pacific	146,560	101,216	151,864	205,050	188,366	78,933	120,036	199,770	224,233	245,882
Rockfish	992,960	992,960	1,200,000	1,040,000	1,040,000	2,150,000	1,050,000	2,050,000	2,050,000	2,050,000
Salmon	72,457	92,021	51,677	70,151	84,946	127,584	111,389	98,301	130,812	151,505
Sole	53,898	73,844	71,888	69,551	63,290	59,963	63,011	82,522	84,913	65,886
Solefish, white	19,890	14,901	9,775	3,972	3,383	4,138	4,056	4,359	5,265	3,585
Shad	14,200	39,200	41,200	52,200	42,200	30,200	40,200	50,200	32,200	32,200
Tuna, albacore	158,372	112,358	99,771	74,680	99,697	129,710	49,887	112,106	160,361	88,590
Tuna, bluefin	737	693	92	1,998	3,166	1,231	1,470	1,833	749	1,470
Whitefish, ocean	6,231	6,949	13,810	15,857	18,184	22,153	36,474	40,960	29,900	21,632
Yellowtail	36,300	36,300	18,500	31,000	31,000	53,000	79,726	67,276	44,908	59,031
All others	142,630	114,490	163,505	166,670	145,073	200,410	451,127	208,575	451,729	303,283
Total number of fish	4,278,502	4,434,176	4,634,556	5,408,420	4,444,164	5,731,201	5,725,375	5,630,635	4,604,152	5,462,405
Number of anglers	615,155	695,445	688,105	857,000	789,102	849,651	802,811	873,327	728,126	792,615

* 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
Knife.....	---	---	45,551	12,653	471
Jackknife.....	---	---	\$30,580	\$7,612	\$118
Purple.....	---	---	1,423	14,316	15,739
Unclassified.....	---	---	\$810	\$6,919	90
	---	---	---	---	\$52
Crab					
Sand.....	---	---	6,786	28	6,814
Shore.....	---	---	\$20,770	\$175	\$20,945
Crayfish.....	---	---	25	---	26
Killifish.....	---	---	\$5	---	\$7
Mudsucker, longjaw.....	---	---	---	---	3,979
Mussel (bay and rock).....	---	---	101,114	14,428	\$1,544
Sculpin, staghorn.....	702	185	\$17,121	\$2,024	115,799
Shrimp					
Bay.....	71,402	1,665	---	---	73,067
Brine.....	\$113,433	\$2,423	---	---	\$115,856
Ghost.....	---	---	15,672	5,882	300,065
Red.....	---	---	\$35,718	\$11,222	21,554
Total.....	712,631	1,850	171,674	47,530	\$10,171
	\$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
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

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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	*	0	0	*	0	0	*	2	*	6	11	*	55	116	0.4	0.6	
Skiff.....	--	--	--	--	--	--	--	--	--	--	--	185	541	0.4	318	2,928	0.4	0.6	
Eureka																			
Partyboat.....	0	0	*	2	3	*	2	3	*	119	150	*	303	379	*	620	774	1.1	0.9
Skiff.....	--	--	--	--	--	--	--	--	--	--	--	995	3,258	0.5	3,083	11,418	0.4	0.9	
Fort Bragg																			
Partyboat.....	0	0	*	4	4	*	26	27	*	260	260	*	437	437	*	1,113	1,659	1.2	0.7
Skiff.....	--	--	--	--	--	--	--	--	--	--	--	897	585	0.4	2,082	4,202	0.4	0.7	
San Francisco																			
Partyboat.....	21,312	0	2.1	31,086	123	1.5	8,258	956	0.0	5,800	5,220*	1.8	15,340	469	1.5	19,274	61	1.5	
Skiff.....	10,425	0	1.5	8,625	0	1.4	8,065	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	866	869	0.3	1,107	788	0.5	1,755	95	0.8	
Statewide																			
Partyboat.....	21,533	0	2.1	31,200	138	1.5	8,438	967	0.0	6,420	5,657*	1.8	16,270	1,309	1.5	21,180	2,617	1.4	
Skiff.....	11,650	0	0.9	9,725	0	0.8	7,432	443	0.9	2,679	1,621	0.6	5,349	5,333	0.5	10,155	18,676	0.8	

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.....	568	799	0.3	6	26	0.1	--	--	*	--	--	*	--	--	*	1,077	4,294	0.4
Eureka																		
Partyboat.....	142	627	0.8	26	116	*	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	19,207	0.7
Fort Bragg																		
Partyboat.....	168	221	0.4	8	11	*	0	0	*	0	0	*	0	0	*	2,016	2,619	1.0
Skiff.....	169	738	0.3	10	10	0.1	--	--	*	--	--	*	--	--	*	2,858	5,533	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	*	155,455	6,853*	1.5
Skiff.....	3,929	21	1.0	2,838	12	1.1	1,600	0	1.2	515	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	0.4
Skiff.....	998	27	0.6	1,043	57	0.8	400	25	0.2	100	0	0.2	0	0	*	10,061	1,789	0.4
Statewide																		
Partyboat.....	19,449	851	1.5	17,409	130	1.6	7,443	33	0.9	515	1	0.4	0	0	*	139,843	11,533*	1.5
Skiff.....	7,101	6,394	0.8	4,076	323	0.8	2,000	23	0.6	612	13	0.6	0	0	*	60,579	32,270	0.7

¹ Salmon per angler-day, species combined.^a No sampling.^b Data not comparable to that of other ports or months.

*Includes 18 pink salmon.

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	180,816	18,777	132,000	18,994	35,285	3,775	13,037	1,266	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	161,647	28,497
Pink.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eureka														
King.....	114	20	487,070	54,388	303,145	36,135	150,857	15,407	17,109	2,123	3,431	241	962,356	108,361
Silver.....	0	0	12,647	2,568	130,729	22,106	64,953	8,996	36,588	4,853	2,672	339	247,639	39,555
Pink.....	0	0	22	7	34	9	0	0	0	0	0	0	56	16
Fort Bragg														
King.....	0	0	274,036	30,145	316,077	29,839	510,277	43,672	121,524	10,808	20,119	1,698	1,243,053	114,972
Silver.....	0	0	25,100	4,790	57,421	14,454	268,080	34,745	37,372	4,563	3,411	424	415,516	55,755
Pink.....	0	0	0	0	4	0	0	0	0	0	0	0	0	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	3,839	111,776	23	58,851	7,740	24,774	2,924	11,124	116	217,110	31,110
Pink.....	0	0	0	0	85	0	0	0	0	0	0	0	85	23
Monterey														
King.....	2,805	281	270,091	19,722	160,346	12,440	39,312	2,956	24,799	1,844	40,369	2,995	537,722	40,238
Silver.....	0	0	3,395	776	5,998	801	3,810	400	286	29	49	0	15,200	2,067
Pink.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Statewide														
King.....	3,044	321	1,737,372	172,198	1,507,031	139,402	1,181,600	101,736	731,696	62,277	212,036	16,269	5,372,779	492,203
Silver.....	0	0	73,965	14,343	395,521	66,296	463,956	63,135	109,907	13,419	7,006	901	1,050,353	137,994
Pink.....	0	0	25	7	153	36	0	0	0	0	0	0	15	43

¹ Dressed, head on.

FISH MILESTONES 101

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	55,700	2,091	----	----	----	22,800	41,133	36,825	337,412
Carp.....	33,015	21,104	20,555	17,500	15,700	167	----	----	----	4,700	46,390	40,175	195,705
Lamprey.....	---	---	1,500	---	---	---	---	---	---	---	---	---	1,500
Crustacea													
Crayfish.....	106	58	101	110	42,646	12,186	590	6,330	7,975	553	669	1,484	72,508
Mollusk													
Snail, freshwater.....	---	---	---	---	---	---	---	---	---	---	85	327	412
Amphibia													
Frog.....	625	1,802	2,182	600	1,219	1,025	1,600	128	508	1,228	213	50	11,450
Total pounds.....	59,529	52,034	97,448	66,600	115,265	15,469	2,280	6,458	8,573	29,281	88,490	79,881	620,288

MARINE LANDINGS

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			
Contra Costa			San Joaquin		
Blackfish, Sacramento.....	330,095	\$66,019	Carp.....	60	\$5
Carp.....	190,415	15,449	Crayfish.....	1,339	413
County totals.....	520,510	\$81,468	Frog.....	224	144
Lake			Snail, freshwater.....	327	53
Blackfish, Sacramento.....	3,181	\$638	County totals.....	1,950	\$615
Carp.....	3,949	320			
County totals.....	7,130	\$958	Solano		
Madera			Crayfish.....	3,113	\$959
Crayfish.....	20	\$9	County totals.....	3,113	\$959
Frog.....	1,282	963			
County totals.....	1,302	\$972	Stanislaus		
Merced			Carp.....	1,807	\$147
Crayfish.....	661	\$309	Blackfish, Sacramento.....	4,136	827
Frog.....	397	298	County totals.....	5,943	\$974
Snail, freshwater.....	85	17			
County totals.....	1,143	\$624	Yuba		
Sacramento			Frog.....	813	\$524
Crayfish.....	65,258	\$20,111	County totals.....	813	\$524
Frog.....	2,324	1,499	Grand total.....	620,288	\$115,255
County totals.....	67,582	\$21,610			
			Recap		
			Blackfish, Sacramento.....	337,412	\$67,482
			Carp.....	196,706	15,992
			Lamprey.....	1,500	450
			Frog.....	11,450	7,476
			Crayfish.....	72,808	23,755
			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-----	395,098.00	----	395,098.00
1919-----	16,673.00	----	16,673.00
1920-----	25,464.00	----	25,464.00
1931-----	----	260.00	260.00
1932-----	301.61	10,013.08	10,314.69
1933-----	52.75	21,568.65	21,621.40
1934-----	1,827.21	14,052.57	15,879.78
1935-----	----	30,601.83	30,601.83
1936-----	14,336.70	34,980.34	49,317.04
1937-----	9,612.70	34,340.65	43,953.35
1938-----	18,284.06	29,413.25	47,697.31
1939-----	25,546.30	31,189.70	56,736.00
1940-----	33,322.20	25,682.20	59,004.40
1941-----	36,103.00	19,614.00	55,717.00
1942-----	44,880.11	17,017.65	61,897.76
1943-----	19,547.44	28,410.86	47,958.30
1944-----	22,710.50	30,319.40	53,029.90
1945-----	37,541.30	21,639.90	59,181.20
1946-----	60,384.90	30,683.60	91,068.50
1947-----	46,028.80	28,207.80	74,236.60
1948-----	50,966.10	27,675.00	78,641.10
1949-----	56,076.00	27,270.00	83,346.00
1950-----	49,955.00	50,647.00	100,602.00
1951-----	30,318.00	84,442.00	114,760.00
1952-----	37,906.00	72,252.50	110,158.50
1953-----	37,172.50	89,476.50	128,649.00
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-----	86,327.70	54,995.10	140,222.80
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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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 fresh-water 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 marketability.
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, caffa 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)	Thresher, longtail shark, thresher shark, fish shark, sea ope, pez zorro, pesca pavone, swiveltail, fox shark, swingtail, sea fox
Common thresher	<i>Alopias vulpinus</i> (Bonnaterre)	
	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 kampae	
Swell shark	Cephaloscyllium ventriosum (Garman)	California swell shark
	We follow Kato, Springer, and Wagner (1967) and regard <i>C. uter</i> a synonym of <i>C. ventriosum</i> .	
Filetail cat shark	Parmaturus xaniurus (Gilbert)	Filetail shark
Bull shark	Carcharhinus leucas (Valenciennes)	Roundnose shark, pigeye shark
	Referred to as the roundnose shark, <i>Carcharhinus azureus</i> , 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, <i>Carcharhinus lamiella</i> , 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
Soupfin shark	Galeorhinus zyopterus Jordan and Gilbert	Oil shark, soupfin, 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)	Pacific bonnethead, shovelhead shark
Bonnethead	Sphyrna tiburo (Linnaeus)	Hammerhead shark, common hammerhead, axhead shark, shovel nose shark
Smooth hammerhead	Sphyrna zygaena (Linnaeus)	
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, squatto

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)	Shovelnosed 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 kincailii</i> Garman	Black skate
	Black skate in AFS (1970). We follow Miller and Lea (1972) in using the common name sandpaper skate for <i>Raja kincailii</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.	
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	Monterey skate, rock skate, roughtail skate
White skate *	<i>Bathyraja spinosissima</i> (Beebe and Tee-Van)	Pacific stingray, rat-tailed stingray, stingaree
Diamond stingray	<i>Dasyatis dipterura</i> (Jordan and Gilbert)	
Pelagic stingray	<i>Dasyatis violacea</i> (Bonaparte)	Stingaree, stingray
Round stingray	<i>Urolophus halleri</i> Cooper	Butterfly stingray, stingaree, butterfly ray, angel shark, bay ray, eagle sting ray
California butterfly ray	<i>Gymnura marmorata</i> (Cooper)	Eagle ray, California sting ray, stingaree, bat sting ray, batfish
Bat ray	<i>Myliobatis californica</i> Gill	Manta, devilfish, sea devil, blanketfish
Pacific manta	<i>Manta hamiltoni</i> (Newmann)	
Spinetail mobula	<i>Mobula japanica</i> (Muller and Henle)	Mobula, Pacific mobula
Smoothtail mobula	<i>Mobula lucasana</i> Beebe and Tee-Van	
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 acuminatus</i> as Pacific round herring; however, <i>E. acuminatus</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 medirastre</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
Sockeye salmon *	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.	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
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 starksii</i> (Fisk)	Whitebait, sand smelt, nightfish
Longfin smelt	<i>Spirinchus thaleichthys</i> (Ayres)	Sacramento smelt, delta 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
Benttooth bristlemouth *	Barreleye in AFS (1970). We follow Miller and Lea (1972) and add the attributive "Pacific".	
Bigeye lightfish	<i>Cyclothona acclinidens</i> Garman	
	<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 hatchetfish *	<i>Argyropelecus sladeni</i> Regan
Highfin dragonfish *	<i>Bathophilus flemingi</i> Aron and McCrary
Longfin dragonfish *	<i>Tactostoma macropus</i> Bolin
Pacific viperfish *	<i>Chauliodus macouni</i> Bean
California lizardfish *	<i>Synodus lucioceps</i> (Ayres)
Slender barracudina *	<i>Lestidium ringens</i> (Jordan and Gilbert)
Longnose lancetfish	<i>Alepisaurus ferox</i> Lowe
Daggertooth *	Pacific lancetfish, <i>Alepisaurus richardsoni</i> , listed by Roedel (1962) is now considered synonymous with <i>A. ferox</i> .
Northern pearleye *	<i>Anopoterus pharao</i> Zugmayer
California headlightfish *	<i>Benthalbella dentata</i> (Chapman)
Broadfin lampfish *	<i>Diaphus theta</i> Eigenmann and Eigenmann
California flashlightfish *	<i>Lampanyctus ritteri</i> Gilbert
Northern lampfish *	<i>Protomyctophum crockeri</i> (Bolin)
California lanternfish *	<i>Stenobrachius leucopsarus</i> (Eigenmann and Eigenmann)
Blue lanternfish *	<i>Symbolophorus californiensis</i> (Eigenmann and Eigenmann)
Mexican lampfish *	<i>Tarletonbeania crenularis</i> (Jordan and Gilbert)
Chihuil *	<i>Triphoturus mexicanus</i> (Gilbert)
Specklefin midshipman	<i>Bagre panamensis</i> (Gill)
Plainfin midshipman	<i>Porichthys myriaster</i> Hubbs and Schultz
	<i>Porichthys notatus</i> Girard
We designate these more descriptive names as proposed by Roedel (1962).	
	Silvery hatchfish
	Arrow dragonfish
	Fanged viperfish
	Candlefish, lizardfish
	Handsaw fish, Pacific lancetfish, wolffish, subotka
	Pearleye
	Theta lanternfish, whitespotted lanternfish, headlightfish
	Broadfin lanternfish
	Flashlightfish
	Smallfin lanternfish
	Slim midshipman, bullhead, singing fish, toad fish
	Northern midshipman, bullhead, singing fish, toad fish, grunter

Designated common name	Scientific name	Other common names
Lined clingfish *	<i>Gobiesox eugrammus</i> Briggs	
Northern clingfish *	<i>Gobiesox maeandricus</i> (Girard)	Common clingfish, flathead clingfish, suckfish
Bearded clingfish *	<i>Gobiesox papillifer</i> Gilbert	
California clingfish *	<i>Gobiesox rhessodon</i> Smith	
Southern clingfish *	<i>Rimicola dimorpha</i> Briggs	
Slender clingfish *	<i>Rimicola eigenmanni</i> (Gilbert)	
Kelp clingfish *	<i>Rimicola muscarum</i> (Meek and Pierson)	
Roughjaw frogfish *	<i>Antennarius avalonis</i> Jordan and Starks	Frogfish, California frogfish
Spotted batfish *	<i>Zalieutes elator</i> (Jordan and Gilbert)	Batfish
Warted seadevil *	<i>Cryptopsaras couesii</i> Gill	Triplewart seadevil
Finescale codling *	<i>Antimora microlepis</i> Bean	Finescale flatnose codling, Pacific flatnose, longfin cod
Hundred-fathom codling *	<i>Physiculus rastrelliger</i> Gilbert	
Pacific cod	<i>Gadus macrocephalus</i> Tilesius	Plain cod, gray cod, true cod, Alaska cod, cod
Pacific tomcod *	<i>Microgadus proximus</i> (Girard)	Tomcod, piciata, California tomcod
Walleye pollock	<i>Theragra chalcogramma</i> (Pallas)	Whiting, bigeye, Alaska pollock, southern walleye pollock
Pacific hake	<i>Merluccius</i> products (Ayres)	Hake, white fish, haddock, butterfish, mellusa, meluzette, California hake, ocean whitefish, popeye, silver hake
Spotted cusk-eel *	<i>Chilara taylori</i> (Girard)	
Basketweave cusk-eel *	<i>Otophidium scrippsi</i> Hubbs	California cusk-eel
Red brotula *	<i>Brosmophycis marginata</i> (Ayres)	Purple brotula
Bigfin eelpout *	<i>Aprodon cortezianus</i> Gilbert	Smoothgum eelpout
Twoline eelpout	<i>Bothrocara brunneum</i> (Bean)	Oligopus diagrammus (He)

Soft eelpout *	Bothrocara molle Bean	Pighead eelpout
Flatcheek eelpout *	Embryx crotalina (Gilbert)	Snakehead eelpout
Blackmouth eelpout *	Lycodapus fierasfer Gilbert	Pearly eelpout
Pallid eelpout *	Lycodapus mandibularis Gilbert	Pale eelpout
Black eelpout *	Lycodes diaperatus Gilbert	Blackfinned eelpout
Blackbelly eelpout *	Lycodopsis pacifica (Collett)	
Bearded eelpout *	Lyconema barbatum Gilbert	
Midwater eelpout *	Melanostigma pammelas Gilbert	Pacific softpout, black eelpout
Pacific grenadier	Coryphaenoides acrolepis (Bean)	Pacific rattail, roughscale rattail, rhoughscale grenadier
California grenadier *	Nezumia stelgidolepis (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 *	Cypselurus californicus (Cooper)	Volator, great flyingfish
Blotchwing flyingfish *	Cypselurus heterurus (Rafinesque)	Single-bearded flyingfish
Sharpchin flyingfish *	Fodiator acutus (Valenciennes)	Sharpnose flyingfish
Blackwing flyingfish *	Hirundichthys rondeletii (Valenciennes)	
Ribbon halfbeak *	Euleptorhamphus longirostris (Cuvier)	
Longfin halfbeak *	Hemiramphus saltator Gilbert and Starks	Halfbeak
California halfbeak *	Hyporhamphus rosae (Jordan and Gilbert)	Halfbeak, common halfbeak, esribano, pajarito
Silverstripe halfbeak	Hyporhamphus unifasciatus (Ranzani)	
	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	Strongylura exilis (Girard)	Garfish, billfish, needlefish, California garfish
Pacific saury	Cololabis saira (Brevoort)	Skipper, garfish, sourbelly, sourfish, saury
California killifish	Fundulus parvipinnis Girard	Killifish
Topsmelt	Atherinops affinis (Ayres)	Bay smelt, rainbow smelt, panzarotto, little smelt, least smelt, silverside, capron, jack, pescadillo
Jacksmelt	Atherinopsis californiensis Girard	Silverside, California smelt, horse smelt, blue smelt, pescado del rey, Peixe rey, Pesce rey
California grunion	Leuresthes tenuis (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>Allocyttus 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 pipefish *	<i>Macrorhamphosus gracilis</i> (Lowe)	Snipefish
Pacific seahorse *	<i>Hippocampus ingens</i> Girard	Caballito del mar
Schnubnose pipefish *	<i>Syngnathus arctus</i> (Jenkins and Evermann)	
Barred pipefish	<i>Syngnathus aulicus</i> (Swain)	Great pipefish
Kelp pipefish	<i>Syngnathus californiensis</i> Storer	
Bay pipefish	<i>Syngnathus leptorhynchus</i> Girard	
	This species is conspecific with <i>Syngnathus griseolineatus</i> listed by Roedel (1962).	

Sculpin	<i>Scorpaena guttata</i> Girard	California scorpionfish, spotted scorpionfish, scorpionfish, scorpion, bullhead, scorpene
Rainbow scorpionfish*		
	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.	
	<i>Scorpaenodes xyrus</i> (Jordan and Gilbert)	
Rougheye rockfish	<i>Sebastes aleutianus</i> (Jordan and Evermann)	Blackthroated rockfish, blacktip rockfish
Pacific ocean perch	<i>Sebastes alutus</i> (Gilbert)	Longjaw rockfish, rose fish
Kelp rockfish	<i>Sebastes atrovirens</i> (Jordan and Gilbert)	Gopher rockfish, garrupa, green garrupa
Brown rockfish	<i>Sebastes auriculatus</i> Girard	Blina, sand bass
Aurora rockfish	<i>Sebastes aurora</i> (Gilbert)	
Redbanded rockfish*	<i>Sebastes babcocki</i> (Thompson)	Shortspine rockfish
Shortraker rockfish*	<i>Sebastes borealis</i> Barsukov	Flesh-colored rockfish, flesh-colored garrupa, butterball, butter bass
Silvergray rockfish	<i>Sebastes brevispinis</i> (Bean)	Whitebelly rockfish, white gopher, barriga, gopher, blanca, palermatano, northern rockfish
Gopher rockfish	<i>Sebastes carnatus</i> (Jordan and Gilbert)	Chucklehead, Santa Maria, red rock cod, bolina, cernie, pesce vermiglia, chinafish
Copper rockfish	<i>Sebastes caurinus</i> Richardson	Gopher rockfish, black and yellow garrupa, cifulatano, sand bass
Greenspotted rockfish	<i>Sebastes chlorostictus</i> (Jordan and Gilbert)	Spotted corsair, spotted rockfish, chinafish, red rock cod, sacciatale
Black-and-yellow rockfish	<i>Sebastes chrysomelas</i> (Jordan and Gilbert)	Blackmouth rockfish, blackblotched rockfish
Starry rockfish	<i>Sebastes constellatus</i> (Jordan and Gilbert)	Pretty rock cod, brown rockfish
Darkblotched rockfish	<i>Sebastes crameri</i> (Jordan)	Rosefish, lobe-jawed rockfish
Calico rockfish	<i>Sebastes dalli</i> (Eigenmann and Beeson)	Red rock cod, strawberry rockfish, serena, reina, poinsetta, striped rockfish
Splitnose rockfish	<i>Sebastes diploproa</i> (Gilbert)	
Greenstriped rockfish	<i>Sebastes elongatus</i> Ayres	Flyfish
Swordspine rockfish*	<i>Sebastes ensifer</i> Chen	
	This species was listed as <i>Sebastodes rhodochloris</i> by Roedel (1962). Chen (1971) synonymized <i>S. rhodochloris</i> with <i>S. helvomaculatus</i> and described <i>S. ensifer</i> .	
Widow rockfish	<i>Sebastes entomelas</i> (Jordan and Gilbert)	Red snapper, † viuva, widowfish, beccafico
Pink rockfish	<i>Sebastes eos</i> (Eigenmann and Eigenmann)	Chucklehead, dawn rockfish, Santa Maria
Yellowtail rockfish	<i>Sebastes flavidus</i> (Ayres)	Red snapper, † rock cod, yellowtail, gialota, giola, cherne, green snapper
Bronzespotted rockfish	<i>Sebastes gilli</i> (Eigenmann)	Catalina, Catalina bass, Catalina salmon
Chilipepper	<i>Sebastes goodei</i> (Eigenmann and Eigenmann)	Red snapper, † red rock cod, johnnies, johnny cod
Rosethorn rockfish	<i>Sebastes helvomaculatus</i> Ayres	Deep-water scacciatale, deep-water scratch-tail, orange-red rockfish
Squarespot rockfish	<i>Sebastes hopkinsi</i> (Cramer)	Smallmouth rockfish, widow rock cod
Shortbelly rockfish	<i>Sebastes jordani</i> (Gilbert)	Slim rockfish, slender rockfish, steamer rockfish
Freckled rockfish	<i>Sebastes lentiginosus</i> Chen	
Cowcod	<i>Sebastes levius</i> (Eigenmann and Eigenmann)	Red snapper, † cow rockfish, roosterfish, gallo, chefra, cowfish, cow
Mexican rockfish	<i>Sebastes macdonaldi</i> (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>Sebastodes maliger</i> (Jordan and Gilbert)	Orange-spotted rockfish, yellow-backed rockfish, brown rockfish, speckled rockfish
Black rockfish	<i>Sebastodes melanops</i> (Girard)	Red snapper, [†] black snapper, black bass, bass rockfish, nero, cherma, pesce pretre, gray rockfish, black sea bass, sea bass, black rock
Blackgill rockfish	<i>Sebastodes melanostomus</i> (Eigenmann and Eigenmann)	Blackmouth rockfish, deepsea rockfish
Vermilion rockfish	<i>Sebastodes miniatus</i> (Jordan and Gilbert)	Red snapper, [†] red rock cod, rasher, borracho, genuine red, salmon grouper, borrachon
Blue rockfish	<i>Sebastodes mystinus</i> (Jordan and Gilbert)	Bluefish, blue perch, priestfish, black rockfish, black bass, nervi, neri, black snapper
China rockfish	<i>Sebastodes nebulosus</i> Ayres	Cefalutano, black and yellow rockfish, yellow-spotted rockfish, cerod, yellow rockfish, gopher, pelican, yellowstripe rockfish, speckled garrupa, chinafish
Tiger rockfish	<i>Sebastodes nigrocinctus</i> Ayres	Banded rockfish, blackbanded rockfish, barred rockfish
Speckled rockfish	<i>Sebastodes ovalis</i> (Ayres)	Red snapper, [†] widow rockfish, zipola, brownfish, beccafico, viuva
Bocaccio	<i>Sebastodes paucispinis</i> Ayres	Red snapper [†] , rock cod, grouper, salmon grouper, tomcod (young), boccac, merou
Chameleon rockfish*	<i>Sebastodes phillipsi</i> (Fitch)	Red snapper, [†] orange rockfish, codalarga, yellow snapper, filione, fantail, red rock cod, canary, bosco
Canary rockfish	<i>Sebastodes pinniger</i> (Gill)	Red rockfish of Alaska, little red rock cod
Redstripe rockfish	<i>Sebastodes proriger</i> (Jordan and Gilbert)	Kelp rockfish, scomoda, green garrupa, green rockfish, lingcod, schmo
Grass rockfish	<i>Sebastodes rastrelliger</i> (Jordan and Gilbert)	
Yellowmouth rockfish*	<i>Sebastodes reedi</i> (Westrheim and Tsuyuki)	Corsair, dude, scacciatale, scratch-tail
Rosy rockfish	<i>Sebastodes rosaceus</i> Girard	
Greenblotched rockfish*	<i>Sebastodes rosenblatti</i> Chen	Red snapper, [†] turkey-red rockfish, potbelly, drum, tambor, vecchia, red rock cod, yellowbelly, rasphead, golden eye, turkey rock
Yelloweye rockfish	<i>Sebastodes ruberrimus</i> (Cramer)	Spanish flag, barberpole, Hollywood, convict fish, shofies, tiger, barberpole snapper
Flag rockfish	<i>Sebastodes rubrivinctus</i> (Jordan and Gilbert)	
Dwarf-red rockfish*	<i>Sebastodes rufinanus</i> Lea and Fitch	Red snapper [†]
Bank rockfish*	<i>Sebastodes rufus</i> (Eigenmann and Eigenmann)	Popeye rockfish, bigeye rockfish, oliveback rockfish
Striptail rockfish	<i>Sebastodes saxicola</i> (Gilbert)	Inspector
Halfbanded rockfish	<i>Sebastodes semicinctus</i> (Gilbert)	Red snapper, [†] kelp yellowtail, kelp salmon, bass rockfish, sugar bass, sugarfish
Olive rockfish	<i>Sebastodes serranoides</i> (Eigenmann and Eigenmann)	Convictfish, barberpole, garrupa
Treefish	<i>Sebastodes serriceps</i> (Jordan and Gilbert)	Shaded rockfish, dusky rockfish
Pinkrose rockfish*	<i>Sebastodes simulator</i> Chen	Sailfin rockfish, barriga blanca, Palermotana
Honeycomb rockfish	<i>Sebastodes umbrosus</i> (Jordan and Gilbert)	Wilson's rockfish, slender rockfish, dwarf rockfish
Whitebelly rockfish	<i>Sebastodes vexillaris</i> (Jordan and Gilbert)	Bigeyed rockfish
Pygmy rockfish	<i>Sebastodes wilsoni</i> (Gilbert)	Shortspine channel rockfish, idiot, hooligan, thornhead, lobe-finned rockfish, spiny-cheeked rockfish, bonehead, scorpion, fagiano, slim thornhead, gurnard, gurnet, channel cod
Sharpchin rockfish	<i>Sebastodes zacentrus</i> (Gilbert)	Longspine channel rockfish, idiot, hooligan, thornhead, lobe-finned rockfish, spiny-cheeked rockfish, bonehead, scorpion, anglefin rockfish, deep-water rockfish, crimson thornhead
Shortspine thornyhead	<i>Sebastolobus alascanus</i> Bean	
Longspine thornyhead	<i>Sebastolobus altivelis</i> Gilbert	

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)
Lumptail searobin	Prionotus stephanophrys Lockington
Kelp greenling	Hexagrammos decagrammus (Pallas)
Whitespotted greenling	Hexagrammos stelleri Tilesius
Rock greenling	Hexagrammos superciliosus (Pallas)
Lingcod	Ophiodon elongatus Girard
Painted greenling *	Oxylebius pictus Gill
Atka-mackerel	Pleurogrammus monopterygius (Pallas)
Sablefish	Anoplopoma fimbria (Pallas)
Skilfish	Erilepis zonifer (Lockington)
Shortspine combfish	Zaniolepis frenata Eigenmann and Eigenmann
Longspine combfish	Zaniolepis latipinnis Girard
Coralline sculpin *	Artedius corallinus (Hubbs)
Roughcheek sculpin *	Artedius creaseri (Hubbs)
Padded sculpin *	Artedius fenestralis Jordan and Gilbert
Scalyhead sculpin	Artedius harringtoni Starks
Smoothhead sculpin *	Artedius lateralis (Girard)
Puget Sound sculpin *	Artedius meanyi (Jordan and Starks)
Bonyhead sculpin *	Artedius notospilotus Girard
Rosylic sculpin	Ascelichthys rhodorus Jordan and Gilbert
Silverspotted sculpin *	Blepsias cirrhosus (Pallas)
Roughback sculpin *	Chitonotus pugettensis (Steindachner)
Sharpnose sculpin *	Clinocottus acuticeps (Gilbert)
Wooly sculpin *	Clinocottus analis (Girard)
Calico sculpin *	Clinocottus embryum (Jordan and Starks)
Mosshead sculpin *	Clinocottus globiceps (Girard)
Bald sculpin	Clinocottus recalvus (Greeley)
	Smoothhead searobin
	California seatrout, greenling, seatrout, rock trout, kelp, kelp greenling, rockfish, bluefish, spotted rock trout, bodieron, boregat, greenling, kelp trout, kelp cod
	Boregata, starling, Tommy cod, atka mackerel, sea trout, greenling
	Fringed greenling, Pacific red rock trout, red greenling, sea trout, kelp cod
	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
	Convict fish, kelp fish
	Atka greenling, atkafish, yellowfish
	* Butterfish, coalfish, candlefish, skilfish, blackcod, coal cod, blue-cod, bluefish, deepsea trout, black candlefish, skill
	Aburabozu, fat priest
	Longspine greenling
	Plumose sculpin *
	Roundnosed sculpin
	Bonehead sculpin
	Rubber sculpin
	Silverspot, nee-kaio-kaiung
	Mossy sculpin
	Globeheaded sculpin
	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 quadriferatus</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>Leiocottus armatus</i> Girard	Bullhead, staghorn sculpin, cabezon, buffalo sculpin, smooth cabezon
Sailfin sculpin *	<i>Nautichthys oculofasciatus</i> (Girard)	Johnny, sailorfish
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, windowtail poacher, mottled poacher
Southern spearnose *	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.	
Sturgeon poacher *	<i>Agonopsis sterletus</i> (Gilbert)	Southern spearnose poacher, snubnose poacher
Smooth alligatorfish *	Southern spearnose poacher in AFS (1970). See comments under northern spearnose.	
Spinycheek starnose *	<i>Agonus acipenserinus</i> Tilesius	Sturgeonlike seapoacher, common alligatorfish
Bigeye starnose	<i>Anoplagonus inermis</i> (Gunther)	Smooth seapoacher, smooth poacher
Blackfin starnose *	<i>Asterrotheca infraspinata</i> (Gilbert)	
Rockhead *	<i>Asterrotheca pentacantha</i> (Gilbert)	Bigeye poacher
Beardless spearnose *	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.	
Warty poacher *	<i>Bathyagonus nigripinnis</i> Gilbert	Blackfin poacher
	<i>Bothragonus swanii</i> (Steindachner)	Deep-pitted seapoacher
	<i>Ganoideus vulsus</i> (Jordan and Gilbert)	Beardless poacher
	Beardless poacher in AFS (1970). See comments under northern spearnose.	
	<i>Occella verrucosa</i> (Lockington)	Warty seapoacher

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

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)	Spearfish remora, swordfish sucker
Gray marlinsucker *	<i>Remora brachyptera</i> (Lowe)	
	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 orquaeta</i> Jordan and Gilbert	Orquaeta, 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 colbourni</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 *	Vomer declivifrons 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	
Pacific pomfret		Pomfret, smallscaled pomfret, castagnole, rondanin
	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.	
Fanfish *	<i>Brama japonica</i> Hilgendorf	Benten-uwo
Bigscale pomfret *	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.	Manzai-uwo, ebosh idai, hiredjiro-manzaiuo
Silver mojarra	<i>Pteraclis aesticola</i> (Jordan and Snyder)	Spotfin mojarra
Pacific flagfin mojarra *	<i>Taractichthys steindachneri</i> (Doderlein)	
	<i>Eucinostomus argenteus</i> Baird and Girard	
	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.	
	<i>Eucinostomus gracilis</i> (Gill)	

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

Designated common name	Scientific name	Other common names
Scythemarked butterflyfish*	<i>Chaetodon falcifer</i> Hubbs and Rechnitzer	Scythe butterflyfish
Three-banded butterflyfish*	<i>Chaetodon humeralis</i> Gunther	Doll fish, muñeca
Pelagic armorhead	<i>Pentaceros richardsoni</i> Smith	Boarfish
Barred surferch	<i>Amphistichus argenteus</i> Agassiz	Barred perch, silver perch, surf perch, sand perch, silver surf fish
Calico surferch	<i>Amphistichus koelzi</i> (Hubbs)	California porgie, humpback perch
Redtail surferch	<i>Amphistichus rhodoterus</i> (Agassiz)	Rosy surf fish, redtail seaperch, porgy, Oregon porgie
Kelp surferch†	<i>Brachyistius frenatus</i> Gill	Kelp perch, kelp seaperch, brown seaperch
Shiner surferch†	<i>Cymatogaster aggregata</i> Gibbons	Shiner perch, shiner, sparada, minny, shiner seaperch, yellow shiner, bay perch, seven-eleven perch
Island surferch†	<i>Cymatogaster gracilis</i> Tarp	Island seaperch
Pile surferch†	<i>Damalichthys vacca</i> Girard	Pile perch, forktail perch, porgy, white perch, splittail perch, pile seaperch, dusky seaperch, porgy, silver perch
Black surferch†	<i>Embiotoca jacksoni</i> Agassiz	Black perch, common surf fish, bay perch, porgy, blue perch, bay blackperch
Striped surferch†	<i>Embiotoca lateralis</i> Agassiz	Striped seaperch, striped perch, blue perch, rainbow perch, squawfish, crugnoli, blue surf fish, striped surf fish, blue seaperch
Spotfin surferch	<i>Hyperprosopon analis</i> Agassiz	Surf fish, silver perch, walleye surf fish, walleye seaperch, china pompano, white perch
Walleye surferch	<i>Hyperprosopon argenteum</i> Gibbons	Silver perch, shiner
Silver surferch	<i>Hyperprosopon ellipticum</i> (Gibbons)	Rainbow seaperch, rainbow perch, striped perch, bugara, moharra
Rainbow surferch†	<i>Hypsurus caryi</i> (Agassiz)	Reef perch
Reef surferch†	<i>Micrometrus aurora</i> (Jordan and Gilbert)	Dwarf perch, shiner
Dwarf surferch†	<i>Micrometrus minimus</i> (Gibbons)	Sharpnose seaperch
Sharpnose surferch†	<i>Phanerodon atripes</i> (Jordan and Gilbert)	White seaperch, Pacific white perch, split-tail perch, forktail perch, white surf fish, white perch, shiner
White surferch†	<i>Phanerodon furcatus</i> Girard	Rubberlip seaperch, rubberlip perch, porgy, alfione, pile perch, niggerlip, sprat, liverlip, buttermouth
Rubberlip surferch†	<i>Rhacochilus toxotes</i> (Agassiz)	Pink seaperch
Pink surferch†	<i>Zalembius rosaceus</i> (Jordan and Gilbert)	Perch, blue perch, kelp perch, rock bass, black perch
Blacksmith	<i>Chromis punctipinnis</i> (Cooper)	Ocean goldfish, garibaldi perch, golden perch
Garibaldi	<i>Hypsypops rubicundus</i> (Girard)	Mullet
Striped mullet	<i>Mugil cephalus</i> Linnaeus	Pacific barracuda, scoots, scooters, snake, barracuda, log barracuda, barry
California barracuda	<i>Sphyraena argentea</i> Girard	

Listed as Pacific barracuda in AFS (1970). The occurrence of this species is primarily restricted to the California (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 "surferch" 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 "surferch" to all members of the family except the tule-perch, *Hysterocarpus 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*	Polydactylus approximans (Lay and Bennett)	Blue threadfin, Pacific threadfin, threadfin
Yellow bobo*	Polydactylus opercularis (Linnaeus)	Yellow threadfin
Rock wrasse	Halichoeres semicinctus (Ayres)	California wrasse, parrot fish, wrasse
Señorita	Oxyjulis californica (Gunther)	Kelpfish, pescerey, kelp wrasse, butterfish
California sheephead	Pimelometopon pulchrum (Ayres)	Sheephead, California redfish, fathead, humpy, red-fish
Pacific sandfish*	Trichodon trichodon (Tilesius)	Sandfish
Smooth ronquil*	Rathbunella hypolecta (Gilbert)	
Northern ronquil*	Ronquilus jordani (Gilbert)	Ronquil
Smooth stargazer*	Kathetostoma averruncus Jordan and Bollman	
Bay blenny	Hypsoblennius gentilis (Girard)	
Rockpool blenny*	Hypsoblennius gilberti (Jordan)	
Mussel blenny	Hypsoblennius jenkinsi Jordan and Evermann	Crevice blenny
Wolf-eel	Anarrhichthys ocellatus Ayres	
Island kelpfish	Alloclinus holderi (Lauderbach)	Island klipfish
Orangethroat pikeblenny*	Chaenopsis alepidota (Gilbert)	Pacific pikeblenny, pikeblenny
Deepwater blenny	Cryptotrema corallinum Gilbert	Deepwater klipfish
Spotted kelpfish	Gibbonsia elegans (Cooper)	Oscellated klipfish
Scarlet kelpfish	Gibbonsia erythra Hubbs	Scarlet klipfish
Striped kelpfish*	Gibbonsia metzi Hubbs	Seaweed kelpfish, weed klipfish
Crevise kelpfish*	Gibbonsia montereyensis Hubbs	Spotted kelpfish, crevice klipfish
Giant kelpfish	Heterostichus rostratus Girard	Kelpfish, eel, kelp blenny, butterfish
Sarcastic fringehead*	Neoclinus blanchardi Girard	Kelp fish
Yellowfin fringehead*	Neoclinus stephensae Hubbs	
Onespot fringehead	Neoclinus uninotatus Hubbs	
Reef finspot	Paraclinus integrifinnis (Smith)	
Giant wrymouth*	Deloepis gigantea Kittlitz	Congo eel
Dwarf wrymouth	Lyconectes aleutensis 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
Slender cockscomb*		
High cockscomb*		
Mosshead warbonnet*		
Snake prickleback*		
Ribbon prickleback*		
Crisscross prickleback*		
Bluebarred prickleback*		
Whitebarred prickleback*		
Black prickleback*		
Rock prickleback		
	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.	
Penpoint gunnel*		
Longfin gunnel*		
Crescent gunnel*		
Saddleback gunnel*		
Red gunnel*		
Kelp gunnel*		
Rockweed gunnel*		
Graveldiver*		
Prowfish*		
Ragfish		
Pacific sandlance*		
Pacific fat sleeper*		
	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.	
	Apodichthys flavidus Girard	Penpoint blenny
	<i>Pholis clemensi</i> Rosenblatt	
	<i>Pholis laeta</i> (Cope)	Bracketed blenny
	<i>Pholis ornata</i> (Girard)	Saddled blenny
	<i>Pholis schultzi</i> Hubbs	Slender gunnel
	<i>Ulvicola sanctaerosae</i> Gilbert and Starks	
	<i>Xerperes fucorum</i> (Jordan and Gilbert)	Fucus blenny
	<i>Scybalina cerdale</i> Jordan and Gilbert	Borrowing blenny
	<i>Zaprora silenus</i> Jordan	
	<i>Icosteus aenigmaticus</i> Lockington	Brown ragfish, fantailed ragfish
	<i>Ammodytes hexapterus</i> Pallas	Inshore sandlance, sandlance
	<i>Dormitator latifrons</i> (Richardson)	

Yellowfin goby *	Acanthogobius flavimanus (Temminck and Schlegel)
Arrow goby *	Clevelandia ios (Jordan and Gilbert)
Blackeye goby	Coryphopterus nicholsii (Bean)
	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
Longtail goby *	Gobionellus longicaudus (Jenkins and Evermann)
Cheekspot goby *	Ilypnus gilberti (Eigenmann and Eigenmann)
Bay goby *	Lepidogobius lepidus (Girard)
Kelp goby	Lethops connectens Hubbs
	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)
	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 *	Assurer anzac (Alexander)
Pacific scabbardfish *	Lepidopus xantusi Goode and Bean
	Scabbardfish in AFS (1970). We add the attributive "Pacific" to reduce confusion with razorback scabbardfish.
Pacific cutlassfish *	Trichiurus nitens Garman
Slender tuna	Allohunnus fallai Serventy
Bullet mackerel	Auxis rochei (Risso)
Frigate mackerel	Auxis thazard (Lacepede)
Wavyback skipjack	Euthynnus affinis Cantor
	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
Skipjack tuna	Euthynnus pelamis (Linnaeus)
Escolar *	Lepidocybium flavobrunneum (Smith)
Pacific bonito	Sarda chiliensis (Cuvier)
Pacific mackerel	Scomber japonicus Houttuyn
	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.
	Mud goby
	Large scaled goby, crested goby, bluespot goby
	Mudsucker, longjawed goby
	Finescale goby
	Halfblind goby
	Trident goby, specklefaced goby
	Cutlassfish
	Barred frigate mackerel, Pacific bullet mackerel
	Streaked frigate mackerel, wavyback frigate mackerel, Mexican skipjack, keokeo
	Kawakawa, little tuna
	Cross bred mackerel, Mexican little tunny
	Skippy, striped tuna, oceanic bonito, skipjack, watermelon, victor fish, oceanic skipjack, artic bonito, tuna
	Deepsea escolar
	Bonito, California bonito, striped tuna, ocean bonito, skipjack
	Blue mackerel, chub mackerel, green mackerel, right mackerel, greenback mackerel, striped mackerel, green jack, American mackerel, zebra mackerel, mackerel

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> (Bonnaterre)	Longfinned tuna, abrego, Pacific albacore, long-finned albacore, aliconghi, German, germo
Yellowfin tuna	<i>Thunnus albacares</i> (Bonnaterre)	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</i> <i>germo</i> ; Pacific yellowtail, <i>Neothunnus</i> <i>macr</i> <i>pterus</i> ; Pacific bigeye tuna, <i>Parathunnus</i> <i>sibi</i> ; and California bluefin tuna, <i>Thunnus</i> <i>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>Luvarus imperialis</i> Rafinesque	
Sailfish	<i>Istiophorus platypterus</i> (Shaw and Nodder)	Pacific sailfish
	Roedel (1962) listed Pacific sailfish, <i>Istiophorus</i> <i>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>Ichthys 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>Xystreurus 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	Halibut, alabato, northern halibut, right halibut, genuine halibut, real halibut
Pacific halibut	<i>Hippoglossus stenolepis</i> Schmidt	Diamond flounder, turbot, halibut, sole
Diamond turbot	<i>Hypsopsetta guttulata</i> (Girard)	Scalyfin sole, scalyfinned flounder, Bellingham sole, sole, rock sole
Butter sole	<i>Isopsetta isolepis</i> (Lockington)	
	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
Redtail triggerfish*	Black durgon in AFS (1970). We follow Miller and Lea (1972) since we feel the term "triggerfish" is more easily identified with the family.	
Spiny boxfish	<i>Xanthichthys mento</i> (Jordan and Gilbert)	
	<i>Ostracion diaphanum</i> Bloch and Schneider	

Designated common name	Scientific name	Other common names
Oceanic puffer *	<i>Lagocephalus lagocephalus</i> (Linnaeus)	
Bullseye puffer *	<i>Sphoeroides annulatus</i> (Jenyns)	Globe fish, network puffer
Botete *	<i>Sphoeroides lobatus</i> (Steindachner)	Gulf puffer
Pacific burrfish *	<i>Chilomycterus affinis</i> Gunther	Burfish
Spotted porcupine fish *	<i>Diodon hystrix</i> Linnaeus	Porcupinefish
Common mola	<i>Mola mola</i> (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 *	<i>Ranxzania laevis</i> (Pennant)	
Fingered limpet	<i>Acmaea digitalis</i> Eschscholtz	Finger limpet
Whitecap limpet	<i>Acmaea mitra</i> Eschscholtz	Whitecap, duncecap limpet
Owl limpet	<i>Lottia gigantea</i> Sowerby	Giant owl shell, owl shell
Threaded abalone	<i>Haliotis assimilis</i> Dall	
Pink abalone	<i>Haliotis corrugata</i> Gray	Corrugated abalone, rough abalone
Black abalone	<i>Haliotis cracherodii</i> Leach	
Green abalone	<i>Haliotis fulgens</i> Philippi	Splendid abalone, splendid ear shell, blue abalone
Pinto abalone	<i>Haliotis kamtschatkana</i> Jonas	Japanese abalone
Red abalone	<i>Haliotis rufescens</i> Swainson	
White abalone	<i>Haliotis sorenseni</i> Bartsch	
Flat abalone	<i>Haliotis walallensis</i> Stearns	Northern green abalone
Volcano limpet	<i>Fissurella volcano</i> Reeve	Volcano keyhole limpet
Giant keyhole limpet	<i>Megathura crenulata</i> (Sowerby)	Black keyhole limpet
Purple ringed top shell	<i>Calliostoma annulatum</i> (Lightfoot)	
Channeled top shell	<i>Calliostoma canaliculatum</i> (Lightfoot)	
Ribbed top shell	<i>Calliostoma ligatum</i> Gould	
Brown turban	<i>Tegula brunnea</i> (Philippi)	Brown tegula, brown top

Black turban	<i>Tegula funebralis</i> (Adams)	Black tegula, black top
Speckled turban	<i>Tegula gallina</i> (Forbes)	Speckled tegula, speckled top
Monterey turban	<i>Tegula montereyi</i> Kiener	Monterey tegula
Dusky turban	<i>Tegula pulligo</i> Gmelin	Dusky tegula
Red top	<i>Astraea gibberosa</i> (Dillwyn)	Red turban
Wavy top	<i>Astraea undosa</i> (Wood)	Wavy turban, wavy top turban, wavy turbine
Eroded periwinkle	<i>Littorina planaxis</i> Philippi	Flatbottomed periwinkle, flat periwinkle, gray littorina
Checkered periwinkle	<i>Littorina scutulata</i> Gould	Scaly worm mollusk
Scaled worm shell (snail)	<i>Serpulorbis squamigerus</i> (Carpenter)	Ancient hoof shell, horse hoof shell
California horn shell (snail)	<i>Cerithidea californica</i> (Haldeman)	Turban slipper shell
Hoof shell (snail)	<i>Hipponix antiquatus</i> Linnaeus	Pacific half slipper, wrinkled slipper shell
Hooked slipper	<i>Crepidula adunca</i> Sowerby	Cup and saucer, cup and saucer limpet
Onyx slipper	<i>Crepidula onyx</i> Sowerby	Northern moon snail, western moon shell, Lewis's bullseye
Half slipper	<i>Crepidatella lingulata</i> (Gould)	Recluz's moon snail, Recluz's bullseye
Spiny cup and saucer	<i>Crucibulum spinosum</i> (Sowerby)	Nutbrown cowry
Lewis moon snail	<i>Polinices lewisii</i> (Gould)	California frog mollusk
Southern moon snail	<i>Polinices reclusianus</i> (Deshayes)	
Chestnut cowry	<i>Cypraea spadicea</i> (Swainson)	
California frog shell (snail)	<i>Bursa californica</i> (Hinds)	

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 ocenebra, 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 kelletii</i> (Forbes)	
Beatic olive	<i>Olivella baetica</i> Carpenter	Beatic olivella, beatic dwarf olive, brown olive
Purple olive	<i>Olivella biplicata</i> (Sowerby)	Purple olivella, 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)	Falcate date mussel, peapod shell, hooked peapod
Peapod borer	<i>Adula falcata</i> (Gould)	Ribbed mussel
Ribbed horse mussel	<i>Gukensis demissa</i> (Dillwyn)	Rock boring mussel, rock eating mussel, rock-dwelling mussel, rock borer
Date mussel	<i>Lithophaga plumula</i> (Hanley)	Capax horse mussel, horse mussel
Fat horse mussel	<i>Modiolus capax</i> (Conrad)	Giant horse mussel, horse mussel, straight mussel
Straight horse mussel	<i>Modiolus rectus</i> (Conrad)	California mussel, mussel, sea mussel
California seamussel	<i>Mytilus californianus</i> Conrad	Edible mussel, black mussel, blue mussel
Bay mussel	<i>Mytilus edulis</i> Linnaeus	Branch-ribbed mussel
Platform mussel	<i>Septifer bifurcatus</i> (Conrad)	Japanese oyster
Giant Pacific oyster	<i>Crassostrea gigas</i> (Thunberg)	Virginia oyster
Eastern oyster	<i>Crassostrea virginica</i> (Gmelin)	Lurid oyster, Olympia oyster, California oyster
Native oyster	<i>Ostrea lurida</i> Carpenter	

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

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

Conspicuous chiton	<i>Stenoplax conspicua</i> (Pilsbry)	Showy chiton, sea cradle
Lined chiton	<i>Tonicella lineata</i> (Wood)	Redlined chiton
Black chiton	<i>Katharina tunicata</i> (Wood)	Black Katy chiton, black Katy
Mossy chiton	<i>Mopalia muscosa</i> Gould	Moss chiton, mossy mopalia
Twospot octopus	<i>Octopus bimaculatus</i> (Verrill)	
Common octopus	<i>Octopus punctatus</i> (Gobbi)	Devilfish
Market squid	<i>Loligo opalescens</i> Berry	Common squid, sea arrow, squid, opalescent squid, inkfish, calamari
Sea bat	<i>Patiria miniata</i> (Brandt)	Webbed starfish, webbed seastar, batstar, bat starfish
Giant spined starfish	<i>Pisaster giganteus</i> (Stimpson)	Giant starfish knobby starfish, southern two-colored starfish, spiny star, contrasting colored starfish
Common starfish	<i>Pisaster ochraceus</i> (Brandt)	Purple starfish, ochre starfish
Fragile sea urchin	<i>Allocentrotus fragilis</i> (Jackson)	Red sea urchin, giant red urchin
Giant red sea urchin	<i>Strongylocentrotus franciscanus</i> (Agassiz)	
Purple sea urchin	<i>Strongylocentrotus purpuratus</i> (Stimpson)	Purple urchin

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

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

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	Moss covered crab, masking crab, moss crab
Champion masking crab	<i>Loxorhynchus crispatus</i> Stimpson	
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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