

UC San Diego

Fish Bulletin

Title

Fish Bulletin 173. California Marine Fish Landings For 1977 - 1986

Permalink

<https://escholarship.org/uc/item/7qm3752j>

Authors

Oliphant, Malcolm S
Gregory, Paul A
Ingle, Barbara J
et al.

Publication Date

1990

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF FISH AND GAME
FISH BULLETIN 173
California Marine Fish Landings For 1977 – 1986



by
Malcolm S. Oliphant

*Paul A. Gregory
Barbara J. Ingle
and
Rosa Madrid
1990*

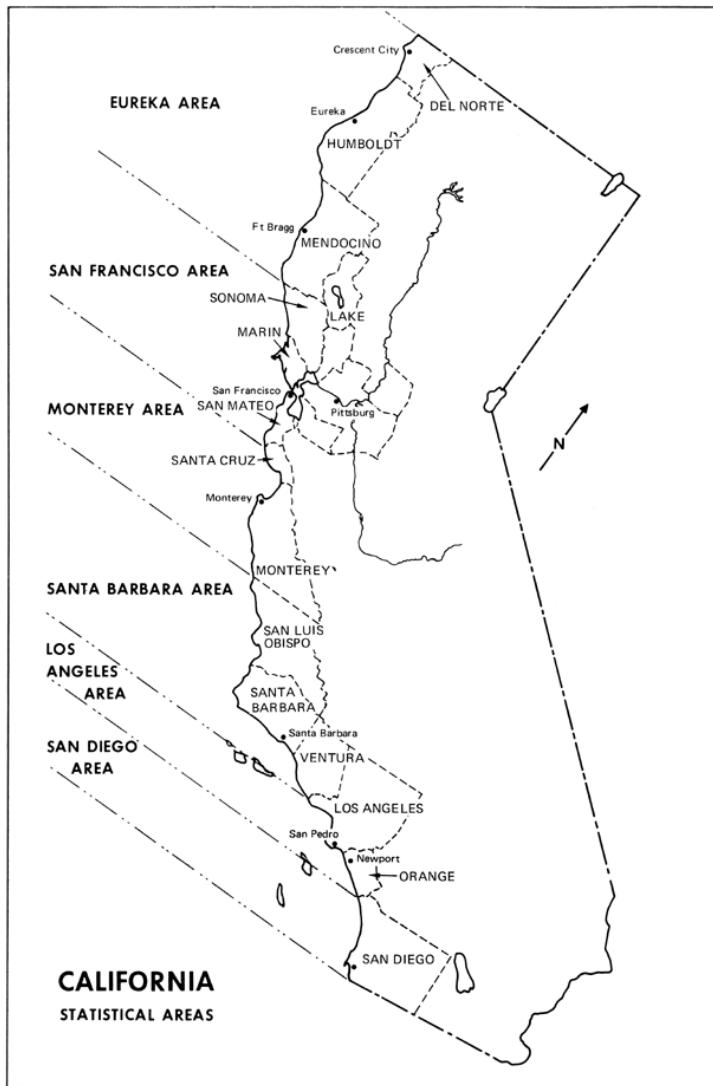


FIGURE 1. Geographical areas used to summarize California fisheries statistics.

FIGURE 1. Geographical areas used to summarize California fisheries statistics

TABLE OF CONTENTS

Introduction	4
Explanation of Tables	4
Literature Cited	6
Common and Scientific Names of Species Reported in the 1977-1986 Catch	7
Annual Landings and Shipments, 1916-1986	10
Number of Licensed Commercial Fishermen and Registered Fishing Boats 1977-1986	11
Value of Landings and Shipments by Area 1977	12
Value of Landings and Shipments by Area 1978	16
Value of Landings and Shipments by Area 1979	20
Value of Landings and Shipments by Area 1980	24
Value of Landings and Shipments by Area 1981	28
Value of Landings and Shipments by Area 1982	32
Value of Landings and Shipments by Area 1983	36
Value of Landings and Shipments by Area 1984	40
Value of Landings and Shipments by Area 1985	44
Value of Landings and Shipments by Area 1986	48
Commercial Passenger Fishing Vessel Catch 1977-1986	52

2. ERRATA

ERRATA for Fish Bulletin 173
Table 11. Page 41 and 43.

Insert the following line of Rockfish, group rosefish at top of page 41.

Rockfish, Group Rosefish	407,418	459,939	381,748	89,967	4,686	-	1,343,758
	\$89,351	\$99,468	\$62,880	\$18,316	\$1,229	-	\$271,244

ON PAGE 43;

Total pounds under Los Angeles Area should be 237,651,574 (replaces 243,403,929).

Total pounds Total should be 445,096,644 (replaces 450,848,999).

Grand total pounds under Los Angeles Area should be 276,643,149 (replaces 282,395,504).

Grand total pounds Total should be 490,543,625 (replaces 496,295,980).

*Errata for Fish Bulletin 173
Table 11. Page 41 and 43*

3. INTRODUCTION

Landing bulletins provide basic catch records of amounts and values of marine resources taken by California's commercial fisheries plus summarizations of catches by the passenger-carrying fishing industry. These figures are of local, national, and international significance to those interested in the wise utilization and management of California's living marine resources.

This report for 1977 through 1986 is the 37th in a series stemming from the first gathering of commercial fisheries landing data by the California Department of Fish and Game in 1916 and the subsequent first publication of these catch data in 1929 for the years 1926 and 1927.

California's fishery statistics are based on a system where fish dealers, processors, and operators of passenger-carrying fishing vessels send duplicate copies of their landing records to the department. Fish Bulletin 86 (Bureau of Marine Fisheries 1952), which reported the catch for 1950, describes fully the system and methods used in collecting commercial fish records. Basic principles remain the same today as then, although some methods and equipment have changed. Young (1969) described the passenger-carrying vessel industry in Fish Bulletin 145.

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

4. EXPLANATION OF TABLES

Tables in this bulletin summarize statistics of the various fishery operations in California from 1977 through 1986.

For the 10-year period this series of reports gives: commercial fish landings and value by area, imports of tuna (shipments) from other states or countries destined for processing in California, and Commercial Passenger Fishing Vessel (CPFV or partyboat) catches. Numbers of licensed commercial fishermen and registered fishing vessels are also reported. The commercial fish landings and shipments (imports) are combined in the tables for each year.

During the 10-year period of this report most of the major tuna canneries ceased their California operations, thus the sharp decline in shipment totals in the 1984-1985 period. The landings, shipments, and value tables are comparable to Table 15 in Oliphant (1979) and continue the data series of this table dating back to 1959.

Tables of the CPFV (partyboat) catches are comparable to Table 22 in Fish Bulletin 121 (Biostatistical Section, Marine Resources Operations 1963) which summarizes data back to 1936 and is continued in each year's catch bulletin up to 1976. This 10-year report will further continue the Table 22 data series of partyboat catches through 1986.

Statistics presented in this publication do not encompass all marine fishing activities in California since not all of these functions are reported to us. For example, recreational fishing from private boats or from shore is not reported, nor is the quantity of fish imported for use in a fresh state compiled.

Landing and shipment data in these reports are listed in pounds. To convert these values to metric, the following factors are provided:

1 pound = 453.59 grams

1 pound = 0.454 kilograms

1 ton (net or short) = 0.907 metric ton

4.1. Statistical Areas

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

4.2. Species

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

4.3. 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. When the price paid for an individual landing is not specified, the average price paid for the species in the area is used.

4.4. Source of data

Data concerning each commercial landing 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 must provide data concerning the species, weight, and price paid to the

fisherman. 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 may be reported.

Catch data for commercial passenger-carrying fishing vessels are obtained from logs completed by the boat operator. The required log for each trip indicates the number of each species taken, number of anglers on board, 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.

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.

5. LITERATURE CITED

- Biostatistical Section, Marine Resources Operations. 1963. The California marine fish catch for 1961. Calif. Dept. Fish and Game, Fish Bull., 121:1-56.
- Bureau of Marine Fisheries. 1952. The commercial fish catch of California for the year 1950. Calif. Dept. Fish and Game, Fish Bull., 86:1-73.
- Gates, Doyle E., and Herbert W. Frey. 1974. Designated common names of certain marine organisms of California. Calif. Dept. Fish and Game, Fish Bull., 161:55-90.
- Oliphan, M. S. 1979. California marine fish landings for 1976. Calif. Dept. Fish and Game, Fish Bull., 170:1-56.
- Young, Parke H. 1969. The California partyboat fishery 1947-1967. Calif. Dept. Fish and Game, Fish Bull., 145:1-91.

TABLES

MARINE FISH LANDINGS 1977-1986

7

TABLE 1. Common and Scientific Names of Species Reported in the 1977-1986 Catch

Common name	Scientific name
FISHES	
Anchovy, northern	<i>Engraulis mordax</i>
Barracuda, California	<i>Sphyraena argentea</i>
Bass	
Barred sand	<i>Paralabrax nebulifer</i>
Giant sea	<i>Stereolepis gigas</i>
Kelp	<i>Paralabrax clathratus</i>
Spotted sand	<i>Paralabrax maculatofasciatus</i>
Blacksmith	<i>Chromis punctipinnis</i>
Bonito, Pacific	<i>Sarda chiliensis</i>
Butterfish, Pacific	<i>Peprilus simillimus</i>
Cabezon	<i>Scorpaenichthys marmoratus</i>
Croaker, white	<i>Genyonemus lineatus</i>
Dolphinfish	<i>Coryphaena hippurus</i>
Eel	<i>Anarrhichthys ocellatus</i> and <i>Gymnothorax mordax</i>
Flounder	
Arrowtooth	<i>Atheresthes stomias</i>
Miscellaneous	Family Pleuronectidae
Starry	<i>Platichthys stellatus</i>
Flyingfish	<i>Cypselurus californicus</i>
Grenadier	<i>Albatrossia pectoralis</i> and <i>Coryphaenoides acrolepis</i>
Grouper	<i>Mycteroperca</i> spp.
Guitarfish, shovelnose	<i>Rhinobatos productus</i>
Hake, Pacific	<i>Merluccius productus</i>
Halfmoon	<i>Medialuna californiensis</i>
Halibut	
California	<i>Paralichthys californicus</i>
Pacific	<i>Hippoglossus stenolepis</i>
Herring, Pacific	<i>Clupea pallasi</i>
Lingcod	<i>Ophiodon elongatus</i>
Louvar	<i>Luvarus imperialis</i>
Mackerel	
Jack	<i>Trachurus symmetricus</i>
Pacific	<i>Scomber japonicus</i>
Mullet, striped	<i>Mugil cephalus</i>
Opah	<i>Lampris guttatus</i>
Opaleye	<i>Girella nigricans</i>
Queenfish	<i>Seriphis politus</i>
Rockfish	
Blackgill	<i>Sebastodes melanostomus</i>
Group, bocaccio/chilipepper	<i>Sebastodes paucispinis</i> and <i>Sebastodes goodei</i>
Group, red	<i>Sebastodes miniatus</i> and other "red" species
Group, rosefish	<i>Sebastodes diploproa</i> and <i>Sebastodes aurora</i>

TABLE 1. Common and Scientific Names of Species Reported in the 1977-1986 Catch

TABLE 1. (continued) Common and Scientific Names of Species Reported
in the 1977-1986 Catch

Common name	Scientific name
Rockfish	
Miscellaneous	<i>Sebastes</i> spp.
Widow	<i>Sebastes entomelas</i>
Sablefish	<i>Anoplopoma fimbria</i>
Salmon	
King	<i>Oncorhynchus tshawytscha</i>
Pink	<i>Oncorhynchus gorbuscha</i>
Silver	<i>Oncorhynchus kisutch</i>
Sanddab, Pacific	<i>Citharichthys sordidus</i>
Sardine, Pacific	<i>Sardinops sagax caeruleus</i>
Sculpin	<i>Scorpaena guttata</i>
Seabass, white	<i>Atractoscion nobilis</i>
Shark	
Bigeye thresher	<i>Alopias superciliosus</i>
Bonito	<i>Isurus oxyrinchus</i>
Common thresher	<i>Alopias vulpinus</i>
Leopard	<i>Triakis semifasciata</i>
Miscellaneous	Families Alopiidae, Carcharhinidae, Lamnidae, and Squalidae
Pacific angel	<i>Squatina californica</i>
Soupfin	<i>Galeorhinus zyopterus</i>
Sheephead, California	<i>Semicossyphus pulcher</i>
Skates and rays	Families Rhinobatidae, Rajidae, and Myliobatidae
Smelt	
Top or jack	Family Atherinidae
True	Family Osmeridae
Whitebait	<i>Allosmerus elongatus</i>
Sole	
Butter	<i>Isopsetta isolepis</i>
Dover	<i>Microstomus pacificus</i>
English	<i>Parophrys vetulus</i>
Petrale	<i>Eopsetta jordani</i>
Rex	<i>Glyptocephalus zachirus</i>
Rock	<i>Lepidopsetta bilineata</i>
Sand	<i>Psettichthys melanostictus</i>
Surfperch	Family Embiotocidae
Swordfish	<i>Xiphias gladius</i>
Thornyhead	<i>Sebastolobus</i> spp.
Tuna	
Albacore	<i>Thunnus alalunga</i>
Bigeye	<i>Thunnus obesus</i>
Blackfin	<i>Thunnus atlanticus</i>
Bluefin	<i>Thunnus thynnus</i>
Skipjack	<i>Katsuwonus pelamis</i>
Skipjack, black	<i>Euthynnus lineatus</i>
Yellowfin	<i>Thunnus albacares</i>

TABLE 1. Common and Scientific Names of Species Reported in the 1977-1986 Catch

TABLE 1. (continued) Common and Scientific Names of Species Reported in the 1977-1986 Catch

Common name	Scientific name
Turbot	
Curlfin	<i>Pleuronichthys decurrens</i>
Diamond	<i>Hypsopsetta guttulata</i>
Hornyhead	<i>Pleuronichthys verticalis</i>
Wahoo	<i>Acanthocybium solanderi</i>
Whitefish, ocean.	<i>Caulolatilus princeps</i>
Yellowtail	<i>Seriola lalandi</i>
CRUSTACEANS	
Crab	
Dungeness	<i>Cancer magister</i>
California king	<i>Paralithodes spp.</i>
Rock.	<i>Cancer spp.</i>
Spider.	<i>Loxorhynchus spp.</i>
Lobster, California spiny	<i>Panulirus interruptus</i>
Prawn	
Ridgeback	<i>Sicyonia ingentis</i>
Spot.	<i>Pandalus platyceros</i>
Shrimp	
Bay	<i>Crangon spp. and</i> <i>Palaemon macrodactylus</i>
Pacific ocean	<i>Pandalus jordani</i>
ECHINODERMS	
Sea cucumber	Class Holothuroidea
Sea urchin	<i>Strongylocentrotus spp.</i>
MOLLUSKS	
Abalone	
Black	<i>Haliotis cracherodii</i>
Green	<i>Haliotis fulgens</i>
Pink	<i>Haliotis corrugata</i>
Red	<i>Haliotis rufescens</i>
Threaded	<i>Haliotis assimilis</i>
White	<i>Haliotis sorenseni</i>
Clam.	Miscellaneous marine bivalves
Mussel.	<i>Mytilus spp.</i>
Octopus	<i>Octopus spp.</i>
Oyster	
Eastern	<i>Crassostrea virginica</i>
Giant Pacific	<i>Crassostrea gigas</i>
European flat	<i>Ostrea edulis</i>
Scallop, weathervane.	<i>Patinopecten caurinus</i>
Snail, sea.	Miscellaneous marine gastropods
Squid	
Jumbo	<i>Dosidicus gigas</i>
Market.	<i>Loligo opalescens</i>

TABLE 1. Common and Scientific Names of Species Reported in the 1977-1986 Catch

TABLE 2. Total Annual Landings and Shipments into California of Commercial Fish, Mollusks, and Crustaceans; Includes Sardine Deliveries to Reduction Ships, 1930-1938

Year	Thousands of pounds	Year	Thousands of pounds
1916.....	95,003	1951.....	904,114
1917.....	209,877	1952.....	694,996
1918.....	261,134	1953.....	618,919
1919.....	266,270	1954.....	713,410
1920.....	222,004	1955.....	710,713
1921.....	135,348	1956.....	772,551
1922.....	182,343	1957.....	738,550
1923.....	253,875	1958.....	832,919
1924.....	340,446	1959.....	713,423
1925.....	437,502	1960.....	694,663
1926.....	394,964	1961.....	725,253
1927.....	487,166	1962.....	663,107
1928.....	583,527	1963.....	592,899
1929.....	856,854	1964.....	591,131
1930.....	702,189	1965 ^a	544,480
1931.....	502,390	1966.....	591,533
1932.....	556,139	1967.....	589,028
1933.....	821,805	1968.....	567,214
1934.....	1,390,798	1969.....	672,793
1935.....	1,448,017	1970.....	798,415
1936.....	1,764,900	1971 ^b	687,995
1937.....	1,362,984	1972 ^b	845,699
1938.....	1,310,596	1973.....	1,006,431
1939.....	1,486,535	1974.....	938,118
1940.....	1,297,518	1975.....	979,826
1941.....	1,528,892	1976.....	1,047,761
1942.....	1,173,414	1977.....	1,045,147
1943.....	1,234,049	1978.....	918,035
1944.....	1,459,456	1979.....	849,554
1945.....	1,216,501	1980.....	1,010,527
1946.....	919,822	1981.....	971,959
1947.....	795,499	1982.....	846,765
1948.....	900,467	1983.....	649,602
1949.....	1,135,339	1984.....	496,296
1950.....	1,366,676	1985.....	367,012
		1986.....	422,585

a. Beginning in 1965, only tuna shipments are recorded.

b. Beginning in 1972, commercial freshwater fish landings are not included in these totals.

TABLE 2. Total Annual Landings and Shipments into California of Commercial Fish, Mollusks, and Crustaceans; Includes Sardine Deliveries to Reduction Ships, 1930-1938

TABLE 3.* Number of Licensed Commercial Fishermen and Registered Fishing Boats

License year	Licensed commercial fishermen	Commercially registered fishing vessels
1976-77	14,948	7,268
1977-78	17,407	8,421
1978-79	20,298	9,654
1979-80	20,018	9,644
1980-81	20,363	9,229
1981-82	18,862	8,427
1982-83	19,176	8,173
1983-84	15,509	8,282
1984-85	14,383	7,660
1985-86	14,579	7,170
1986-87	14,558	6,992

* These data are a parcel of those presented in Tables 4 and 5 of previous catch bulletins.

TABLE 3. Number of Licensed Commercial Fishermen and Registered Fishing Boats

TABLE 4A. Value of Landings and Shipments of Commercial Fish Into California by Area, 1977

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
Fish:							
Anchova, northern.....	-	508,772	17,693,580	29,562,600	175,187,124	1,258	222,953,234
Barracuda, California..	-	\$52,918	\$379,425	\$630,900	\$3,988,655	\$437	\$5,052,344
Bass, giant sea.....	-	-	-	5,033	66,271	5,815	77,119
Bass, giant sea.....	-	-	-	82,496	\$32,311	\$2,500	87,309
Bass, giant sea.....	-	-	-	1,133	1,974	17,356	19,363
Bonito, Pacific.....	-	-	-	8550	\$13,664	\$8,857	\$23,071
Bonito, Pacific.....	-	72	252	7,697	16,951,158	5,588,426	22,547,605
Butterfish, Pacific....	-	87	876	31,107	\$5,216,116	\$1,086,684	\$4,332,900
Cabezon.....	100	-	32,444	13,213	8,774	1,443	55,974
Cabezon.....	87	-	829,760	85,542	83,582	\$686	\$39,577
Cabezon.....	377	1,836	3,245	6,700	1,640	124	10,300
Cabezon.....	876	\$366	527	6,782	837	88	61,916
Croaker, white.....	-	28,320	184,322	161,650	206,820	7,439	588,551
Dolphinfish.....	-	\$8,584	\$26,816	\$49,082	\$26,153	\$2,670	\$11,105
Dolphinfish.....	-	-	26	32	124	10,94	10,446
Flounder, arrowtooth...	222,300	-	-	813	\$156	\$38	\$2,757
Flounder, arrowtooth...	91,417	-	-	-	-	-	222,300
Flounder, miscellaneous	416,118	461,288	68,000	44,631	52	12	990,101
Flounder, miscellaneous	\$62,879	\$70,478	\$18,497	\$7,641	\$18	\$4	\$159,517
Flyingfish.....	-	-	-	-	\$3,871	129	\$4,000
Grenadier.....	98,622	3,701	-	-	\$26,986	845	\$26,911
Grouper.....	\$6,373	\$269	-	-	-	-	102,323
Hake, Pacific.....	80,936	10	1,158	4,704	5,768	1,761	\$6,642
Hake, Pacific.....	84,064	85	923	889	\$1,443	\$1,009	\$2,452
Halfmoon.....	-	-	-	10	31,474	9,236	40,720
Halibut, California....	293	40,517	14,913	296,072	74,566	41,501	\$6,813
Halibut, California....	8496	\$31,124	\$15,506	\$305,975	\$71,860	\$35,653	\$14,993
Herring, Pacific.....	45,281	11,440,822	167,177	-	-	-	11,653,280
Lingcod.....	88,550	\$1,745,205	\$10,646	-	-	-	\$1,764,402
Mackerel.....	89,919	491,468	13,147	176,623	1,203	760	1,145,759
Mackerel.....	815,698	886,447	\$32,926	\$31,312	\$352	\$184	\$302,719
Mullet, striped.....	4,778	125	383,442	11,338,880	100,538,230	17,381	112,282,836
Mullet, striped.....	828	\$23	\$23,283	\$538,324	\$4,831,984	\$4,367	\$5,410,159
Queenfish.....	-	-	-	-	1,780	2,254	6,734
Rockfish.....	7,017,253	1,819,528	5,051,097	5,540,330	479,576	992,521	20,900,305
Sablefish.....	\$1,106,676	\$380,652	\$913,016	\$1,020,589	\$168,598	\$334,273	\$3,923,804
Sablefish.....	4,315,155	1,187,157	5,051,097	5,540,330	1,614,266	1,777	13,257,759
Sablefish.....	8616,419	\$254,306	\$657,712	\$107,322	\$206,103	\$1,734	\$1,643,196
Salmon.....	3,380,522	1,748,007	602,578	196,024	867	35	5,928,633
Salmon.....	66,625,702	\$3,594,888	\$1,220,713	\$442,356	\$2,623	\$48	\$11,886,330

TABLE 4. Value of Landings and Shipments of Commercial Fish Into California by Area, 1977

MARINE FISH LANDINGS 1977-1986

13

Sanddab, Pacific.....	379,447	353,473	74,105	2,239	166	185	809,615
Sardine, Pacific.....	692,376	686,178	\$17,851	5519	875	818	\$157,117
Sardine, Pacific.....	-	-	-	-	3,837	739	4,576
Sculpin.....	-	-	-	-	81	190	81
Sculpin.....	-	-	-	-	7,458	114,276	116,724
Seabass, white.....	-	229	10,466	49,642	574,663	564,644	1,199,644
Seabass, white.....	-	251	\$12,173	\$45,904	327,863	340,956	\$859,049
Shark, bonito.....	-	-	355	4,618	12,292	2,646	19,911
Shark, common thresher.....	-	-	845	81,058	\$2,791	8655	84,549
Shark, common thresher.....	-	35	264	36,198	81,271	11,844	129,222
Shark, Pacific angel.....	-	811	858	\$12,373	\$27,631	82,570	\$42,643
Shark, Pacific angel.....	-	-	37	329	-	-	366
Shark, soupfin.....	11,639	91,232	11,231	13,230	6,631	28,203	161,145
Shark, soupfin.....	62,956	\$17,808	\$1,705	64,550	\$2,404	89,915	\$39,335
Shark, miscellaneous.....	1,250	103,382	81,261	420,131	327,863	136,798	1,070,685
Shark, miscellaneous.....	\$20	\$21,773	\$11,012	86,953	86,646	\$40,333	\$20,797
Sheepshead, California.....	-	-	-	1,291	4,043	1,075	6,409
Skate.....	-	-	-	6238	\$1,108	8275	81,621
Skate.....	55,054	22,358	77,995	5,309	210	-	161,456
Smelt, top or jack.....	\$10,400	84,063	86,770	\$1,090	855	-	\$21,378
Smelt, top or jack.....	-	937	29,424	11,987	418	42,766	-
Smelt, true.....	522,052	28,948	7,111	8	\$1,709	\$106	83,482
Smelt, true.....	846,095	\$6,905	\$1,254	\$1	-	-	554,249
Smelt, whitebait.....	285,173	23,053	13,341	-	-	-	854,255
Smelt, whitebait.....	52,560	41,931	2,977	-	-	-	319,767
Sole, Dover.....	14,963,881	4,092,255	2,721,374	146,341	-	-	21,923,851
Sole, Dover.....	\$2,352,362	\$662,025	\$443,402	\$20,116	-	-	\$3,477,905
Sole, English.....	1,076,777	1,049,302	389,42	474,46	23	76	3,403,057
Sole, English.....	\$378,366	\$255,917	\$63,915	\$104,133	84	827	590,562
Sole, petrale.....	934,517	524,808	252,877	488,511	-	-	2,200,713
Sole, petrale.....	\$24,063	\$11,670	\$8,443	\$152,243	-	-	\$707,421
Sole, rex.....	1,076,448	309,120	91,913	56	-	-	1,594,596
Sole, rex.....	\$242,079	\$72,712	\$17,201	\$15,562	-	-	334,754
Sole, sand.....	53,323	176,667	3,091	10,684	-	-	243,765
Sole, sand.....	\$19,302	\$51,927	\$8,87	\$9,22	-	-	97,886
Sole, miscellaneous.....	46,655	6,827	1,939	4,329	704	758	61,212
Sole, miscellaneous.....	87,733	\$1,527	\$613	\$1,029	\$221	8297	\$11,420
Surfperch.....	26,598	29,030	56	13,727	15,404	28,419	110,233
Surfperch.....	89,666	\$14,650	\$14	26,21	\$8,150	59,21	94,892
Swordfish.....	-	392	377	72,404	310,474	127,741	511,388
Swordfish.....	-	81,176	\$1,131	\$173,905	\$759,164	\$334,000	\$1,269,376
Thornyhead.....	2,338,516	507,139	311,139	9,155	-	-	5,231,241
Thornyhead.....	8364,459	\$79,374	\$58,181	\$3,018	-	-	5059,032
Tuna, albacore.....	2,031,988	1,722,307	4,020,333	1,084,117	1,889,045	5,157,050	15,904,840
Tuna, albacore.....	\$1,170,762	\$988,466	\$2,318,754	\$627,780	\$1,102,900	\$2,770,517	\$9,183,835
Tuna, bigeye.....	-	-	-	-	1,242,435	2,070,510	3,145
Tuna, bigeye.....	-	-	-	-	5482,100	8855,982	\$1,338,082
Tuna, bluefin.....	-	-	-	194	4,733,321	2,205,879	6,939,994
Tuna, bluefin.....	-	-	-	961	8,733,050	8,937,7	8,937,7
Tuna, skipjack.....	-	-	1,641	873	45,966,739	35,651,036	81,620,289
Tuna, skipjack, black..	-	-	\$567	\$263	\$15,813,882	\$12,646,319	\$28,461,131
Tuna, skipjack, black..	-	-	-	-	1,242,435	1,242,435	1,242,435
Tuna, skipjack, black..	-	-	-	-	\$54,313	\$31,383	\$78,656

TABLE 4—Cont'd.

TABLE 4 (continued). Value of Landings and Shipments of Commercial Fish Into California by Area, 1977

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Tuna, yellowfin.....	-	-	-	-	116,726,589	78,869,600	195,596,189
Turbot.....	6,529	5,930	237	7,266	\$45,112,988	\$30,719,008	\$75,831,968
Mahoo.....	\$1,808	\$1,623	\$71	\$954	-	-	19,365
Yellowtail.....	-	-	-	-	4,056	8,286	12,451
Miscellaneous fish....	1,896	451	394	422	1,669,059	145,169	1,814,650
Crustacean:							
Crab, Dungeness.....	33,325,545	299,304	8,058	14,956	-	-	33,647,063
Crab, rock.....	\$15,553,166	\$178,594	\$5,664	\$13,716	-	-	\$15,751,140
Lobster, California	565	216	29	492,860	\$10,226	79,119	1,083,015
spiny.....	-	993	\$15	\$18,095	\$17,161	82,641	\$316,095
Prawn, ridgeback.....	-	-	-	48,485	88,770	113,945	210,568
Prawn, spot.....	-	-	-	\$16,045	\$219,297	\$271,521	\$606,863
Shrimp, Pacific Ocean..	13,863,465	2,002,159	\$37,155	\$2,120	3,068	-	15,871,322
Miscellaneous	\$3,143,369	\$458,598	\$6,521	\$958	-	-	\$3,609,446
crustacean....	-	-	-	200	2,272	-	2,472
Echinoderms:							
Sea urchin.....	355,520	26,281	4,213	13,065,912	1,668,650	1,415,719	16,536,295
Miscellaneous	\$35,545	\$6,058	\$331	\$1,290,301	\$170,163	\$126,855	\$1,629,253
echinoderm....	-	-	-	-	159	159	318
Mollusk:							
Abalone, black.....	-	-	-	360,718	83,605	18,978	463,301
Abalone, green.....	-	-	-	\$213,597	\$48,967	\$9,136	\$271,700
Abalone, pink.....	-	-	-	3,409	65,529	28,519	97,457
Abalone, red.....	-	-	-	\$44,200	\$82,559	\$12,770	\$184,813
Abalone, threaded.....	97,672	\$114,667	-	151,220	85,900	81,374	318,544
Abalone, white.....	-	30	-	\$174,139	\$107,546	91,303	\$372,988
Abalone, miscellaneous.	-	\$32	-	382,756	12,328	44,694	537,450
Mussel.....	-	-	-	\$425,868	\$12,014	\$46,633	\$596,522
Octopus.....	-	-	-	804	-	19	853
Oyster, eastern.....	27,471	3,193	1,506	-	15,102	10,249	5,823
Oyster, giant Pacific..	\$8,715	\$1,197	\$911	\$304	\$13,515	\$9,825	\$25,620
Yeast.....	-	-	-	921	-	27	988
Spawning material.....	-	-	-	\$668	-	\$27	\$736
Others.....	-	-	-	4,245	45	-	4,290
Total value.....	-	-	-	\$3,305	\$23	-	\$3,328
Total value.....	27,471	3,193	1,506	1,198	143	110	34,411
Total value.....	\$8,715	\$1,197	\$911	\$304	\$63	\$54	\$11,774
Total value.....	-	-	-	-	-	-	2,992
Total value.....	-	-	-	8,417	-	-	\$12,417
Total value.....	568,810	875,416	-	82,126	-	-	936,352
Total value.....	\$620,003	\$300,421	-	\$89,517	-	-	\$1,009,941

TABLE 4. Value of Landings and Shipments of Commercial Fish Into California by Area, 1977

TABLE 4—Cont'd.

Snail, sea.....	436	51	-	89	15,811	271	16,658
Squid, market.....	829	\$14	-	890	\$3,164	\$79	\$3,336
Squid, market.....	932	-	4,468,975	5,368,607	18,382,599	21,096	28,243,79
Miscellaneous mollusk..	\$120	-	\$462,281	\$191,821	\$824,595	\$1,937	\$1,480,754
-	-	288	-	-	92	-	380
-	-	\$173	-	-	\$32	-	\$205
Total pounds.....	89,018,040	29,674,779	41,976,724	71,150,916	490,363,581	133,960,200	856,144,240
Total value....	\$33,013,705	\$9,742,967	\$6,882,817	\$7,084,780	\$80,489,467	\$51,075,771	\$186,289,507
SHIPMENTS:							
Fish:							
Tuna, albacore.....	-	-	-	-	15,767,490	1,402,803	17,170,293
Tuna, bigeye.....	-	-	-	-	\$12,225,593	\$1,045,557	\$13,271,150
Tuna, bluefin.....	-	-	-	-	464,773	207,383	672,156
Tuna, skipjack.....	-	-	-	-	2,240,139	838,948	3,078,247
Tuna, skipjack.....	-	-	-	-	587,022	1,708,516	2,295,538
Tuna, skipjack.....	-	-	-	-	8226,652	8682,133	9908,785
Tuna, skipjack.....	-	-	-	-	104,394,425	30,533,080	134,927,166
Tuna, skipjack, black..	-	-	-	-	\$43,100,024	\$13,117,337	\$56,217,361
Tuna, yellowfin.....	-	-	-	-	286,966	-	286,966
Tuna, yellowfin.....	-	-	-	-	\$21,957	-	\$21,957
Tuna, yellowfin.....	-	-	-	-	14,118,686	19,960,520	33,680,386
Tuna, yellowfin.....	-	-	-	-	\$6,650,331	\$7,729,280	\$14,379,611
Total pounds.....	-	-	-	-	135,590,203	53,412,362	189,002,505
Total value....	-	-	-	-	\$62,781,736	\$22,666,475	\$85,448,211
Grand total pounds..	89,018,040	29,674,779	41,976,724	71,150,916	425,953,784	187,372,502	1,045,687,745
Grand total value...	\$33,013,705	\$9,742,967	\$6,882,817	\$7,084,780	\$143,271,203	\$73,742,246	\$273,737,718

* Tables 4 through 13 are equivalent to Tables 15 in previous catch bulletins.

TABLE 5. Value of Landings and Shipments of Commercial Fish Into California by Area, 1978

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
Fish:							
Anchovy, northern.....	-	822,874	851,790	13,419,000	10,164,928	324	25,258,916
-	-	\$118,393	\$27,297	\$309,852	\$239,659	\$103	\$695,304
Barracuda, California.....	-	-	-	747	40,311	6,779	48,437
-	-	-	-	474	22,514	\$3,406	\$32,423
Blacksmith.....	-	-	-	-	1,500	-	1,500
Bass, giant sea.....	-	-	-	5,180	45,852	15,195	66,227
-	-	-	-	\$2,654	\$28,948	\$8,435	\$39,337
Bonito, Pacific.....	-	-	12,528	51,448	5,509,261	2,309,159	7,882,396
-	-	-	31,707	\$10,407	\$1,001,110	\$467,254	\$1,414,845
Butterfish, Pacific.....	218	131	30,451	22,980	35,434	398	89,122
Cabezon.....	655	\$193	\$23,183	\$10,848	\$21,635	\$338	\$56,252
Cod.....	42	4,457	5,446	18,218	618	-	28,761
-	320	\$1,004	9,077	\$3,207	932	32	\$3,149
Croaker, white.....	340	45,966	67,798	88,029	205,529	14,626	422,288
-	189	\$17,878	\$16,026	\$28,105	\$51,684	\$4,729	\$118,611
Flounder, arrowtooth...	206,118	125	-	-	-	-	206,118
-	818,328	\$58	-	-	-	-	\$81,386
Flounder, miscellaneous	229,326	455,917	88,485	49,151	35	29	822,943
-	\$42,718	\$84,322	\$31,309	\$10,215	\$88	\$12	\$104,504
Flyingfish.....	-	-	-	-	182,715	-	182,715
Grenadier.....	59,933	10,969	360	-	-	-	\$73,075
-	\$5,444	\$965	\$36	-	-	-	71,262
Grouper.....	-	-	-	3,117	801	187	4,105
Hake, Pacific.....	641,374	106,235	-	81,174	\$273	\$94	\$1,541
-	\$61,586	\$9,571	-	-	-	-	70,159
Halibut.....	-	-	33	-	-	-	\$71,157
-	-	-	3	-	-	-	11,360
Halibut, California.....	-	46,483	30,726	227,029	102,121	\$2,031	259,448
-	-	\$42,515	\$27,188	\$278,042	\$112,731	\$36,292	\$496,768
Herring, Pacific.....	50,203	9,359,939	73,767	7	102	-	\$8,860,119
-	\$15,227	\$3,259,941	\$2,765	\$28	\$21	-	\$3,259,940
Lingcod.....	1,061,019	702,028	139,615	109,260	2,600	938	2,015,460
-	\$233,076	\$141,642	\$33,327	\$24,594	\$1,589	\$260	\$434,488
Mackerel.....	2,123	1,922	1,900	8,900	85,000	74,779	93,797
-	\$39	\$157	\$2,875	\$518,097	\$4,830,788	\$12,250	\$5,364,206
Opaleye.....	-	-	-	868	2,670	53	3,591
-	-	-	224	\$1,324	\$13	4,199	4,199
Queenfish.....	-	-	580	4	43,199	-	43,783
-	-	-	58	\$1	\$9,910	-	\$9,969
Rockfish.....	7,577,786	2,838,703	3,207,400	4,971,111	\$896,576	1,018,387	20,514,364
-	\$1,409,356	\$813,797	\$707,244	\$1,249,888	\$374,989	\$356,797	\$4,751,680
Sablefish.....	4,757,579	1,729,398	5,459,708	1,164,890	4,594,766	3,383	17,715,724
-	\$1,148,874	\$868,851	\$1,017,500	\$227,802	\$534,212	\$1,904	\$3,399,143
Salmon.....	6,194,313	1,416,550	1,101,203	4,06,300	123	-	6,810,990
-	\$6,117,807	\$1,410,415	\$1,713,398	\$806,952	\$692	-	\$11,049,274

TABLE 5. Value of Landings and Shipments of Commercial Fish Into California by Area, 1978

MARINE FISH LANDINGS 1977-1986

17

Sanddab, Pacific.....	414,064	230,181	94,142	3,762	913	144	743,206
Sardine, Pacific.....	6117,209	\$66,444	\$25,223	\$945	\$40	\$52	\$210,513
Sardine, Pacific.....	-	-	-	-	1,920	-	120
Sculpin.....	-	-	-	-	116	-	116
Sculpin.....	-	-	910	24	14,125	55,462	71,209
Seahas, white.....	-	-	8231	83	84,843	28,477	1,154
Shark, common thresher.	-	-	2,891	41,448	59,143	517,273	1,160,755
Shark, common thresher.	-	-	83,435	34,400	515,088	8427,689	997,580
Shark, common thresher.	-	30	-	135,400	11,366	-	10,303
Shark, Pacific angel....	-	\$12	-	\$54,099	\$64,598	\$1,622	\$120,321
Shark, Pacific angel....	-	46	-	81,744	275	-	82,383
Shark, Pacific angel....	-	873	-	91,126	913	-	10,337
Shark, soupfin.....	11,441	75,358	5,508	34,817	37,451	21,495	176,70
Shark, soupfin.....	83,327	81,134	81,404	\$9,161	\$15,931	89,112	857,099
Shark, miscellaneous...	1,132	11,593	59,4	89,01	316,10	10,255	1,184,411
Sheepshead, California..	\$142	\$23,176	\$11,033	\$72,667	\$120,413	\$42,494	\$2,25
Sheepshead, California..	-	-	-	-	7,292	-	82,325
Skate.....	145,460	35,017	48,514	45,649	2,277	\$2,277	\$5,266
Smelt, top or jack....	\$34,909	\$8,237	\$4,747	\$5,513	8121	-	453,527
Smelt, top or jack....	-	-	967	2,176	5,153	490	8,686
Smelt, true.....	-	-	0173	329	759	\$120	81,39
Smelt, true.....	67,041	3,697	10,741	2,864	23,451	74	1,968
Smelt, whitebait....	\$9,775	\$1,388	\$2,832	\$419	\$2,959	\$30	817,353
Smelt, whitebait....	260,346	51	51	55	297	-	264,449
Sole, Dover.....	874,563	\$882	-	87	845	-	882,57
Sole, Dover.....	14,081,473	4,344,125	2,262,845	113,443	-	-	20,770,086
Sole, English.....	\$2,551,72	\$22,121	44,828	824	-	-	\$3,925,835
Sole, English.....	1,878,088	1,270,847	342,896	482,911	-	-	1,878,088
Sole, petrale.....	\$509,888	\$349,565	76,423	\$16,507	-	\$13	\$1,052,394
Sole, petrale.....	1,080,70	735,199	74,449	459,604	62	-	2,634,044
Sole, rex.....	\$437,968	227,776	\$10,013	\$14,566	816	-	9,949
Sole, rex.....	1,083,564	295,956	118,711	34,901	215	-	1,537,347
Sole, sand.....	\$39,868	\$98,192	\$30,541	88,511	\$97	-	\$428,199
Sole, sand.....	78,425	157,849	11,499	12,499	-	-	82,515
Sole, sand.....	\$25,747	851,654	176	\$4,148	-	-	881,75
Sole, miscellaneous...	33,251	15,129	2,361	7,372	1,465	255	59,833
Sole, miscellaneous...	86,243	94,219	389	82,125	819	8102	\$14,660
Surfperch.....	48,145	19,814	1,224	\$5,644	25,036	24,701	1,144
Surfperch.....	\$18,881	\$11,019	8543	\$36,251	\$8,234	\$10,428	85,356
Swordfish.....	8285	-	480	337,166	1,753,864	\$16,593	2,604,233
Thornyhead.....	2,012,201	616,221	285,843	12,882	-	\$921,439	84,593
Tuna, albacore.....	83,177	81,130	\$53,725	\$2,475	-	-	1,229,147
Tuna, albacore.....	2,472,626	1,398,062	5,001,051	3,511,704	3,043,255	4,615,998	21,147,428
Tuna, bigeye.....	\$1,464,258	\$1,213,956	\$3,608,121	\$2,133,607	\$2,397,027	\$2,802,477	\$13,619,446
Tuna, bluefin.....	-	-	-	-	3,474,625	313,703	2,788,328
Tuna, skipjack.....	-	-	-	-	8,146	3,090	8,171,146
Tuna, skipjack.....	120	382	275	7,562	82,959,597	\$1,105,925	1,143
Tuna, skipjack, black..	\$73	\$146	\$202	\$2,935	\$29,705,118	\$22,107,76	\$4,065,522
Tuna, skipjack, black..	36	-	-	-	\$24,680	364,281	1,188,997
Tuna, yellowfin.....	-	1,196	-	16,797	109,411,172	81,204,139	819,396
Tuna, yellowfin.....	-	\$471	-	\$6,962	\$46,094,926	\$33,470,273	\$79,572,632

TABLE 5—Cont'd.

TABLE 5 (continued). Value of Landings and Shipments of Commercial Fish Into California by Area, 1978

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Tuna, miscellaneous....	-	-	944	-	1,602	134	2,680
Turbot.....	7,660	\$5,000	210	5,287	\$1,442	\$44	21,902
Turbot.....	\$2,448	\$1,357	875	\$1,079	\$2,942	\$18	87,915
Wahoo.....	-	-	-	-	280	8,059	8,339
Whitefish, ocean.....	-	-	-	1,268	732	371	2,371
Yellowtail.....	-	-	-	\$499	\$200	\$132	881
Miscellaneous fish.....	1,510	2,621	4,562	29,575	25,465	1,894	65,627
	\$365	\$750	\$722	\$7,745	\$8,911	\$812	\$19,305
Crustacean:							
Crab, Dungeness.....	8,335,616	942,097	6,150	78,114	83	137	9,362,197
Crab, Dungeness.....	\$6,353,637	\$884,637	\$6,240	\$39,941	\$42	\$49	\$7,204,446
Crab, California King.....	-	-	-	878	1,248	-	2,439
Crab, rock.....	34,327	2,121	-	618,313	222,038	80,075	956,874
Crab, spider.....	87,735	\$1,617	-	\$189,400	\$104,727	\$31,668	\$329,794
Lobster, California spiny.....	-	254	-	511	1,408	-	1,919
Prawn, ridgeback.....	-	-	-	45,716	-	-	\$507
Prawn, spot.....	1,263	-	11,137	\$29,169	-	-	67,547
	-	-	79	\$81,801	-	-	\$113,265
Shrimp, Pacific ocean.....	13,879,587	2,776	-	4,937	-	-	13,879,587
Shrimp, Pacific ocean.....	\$3,643,429	\$3,998	\$13	\$7,680	-	-	\$3,954,140
Shrimp, miscellaneous.....	-	-	-	52	-	-	52
Miscellaneous crustacean....	-	-	-	\$185	-	-	\$185
Echinoderm.....	-	-	-	56	38	-	94
Sea cucumber.....	-	-	-	420	\$10	-	\$30
	-	-	-	-	-	-	\$661
Mollusk:							
Abalone, black.....	-	27	-	1,413	7,367	-	8,780
Abalone, black.....	-	\$66	-	\$714	\$3,705	-	\$4,419
Abalone, green.....	-	-	-	3,903	74,227	14,912	93,042
Abalone, green.....	-	-	-	\$6,634	\$11,948	\$2,112	\$20,694
Abalone, pink.....	-	8	-	16,329	\$8,164	25,334	287,335
Abalone, pink.....	-	\$13	-	\$230,991	\$146,185	\$35,371	\$412,560
Abalone, red.....	-	84,331	-	\$69,839	6,025	28,352	89,147
	-	\$122,039	-	\$500,408	\$8,237	\$35,023	\$665,707

TABLE 5. Value of Landings and Shipments of Commercial Fish Into California by Area, 1978

MARINE FISH LANDINGS
1977-1986

19

Abalone, white.....	-	-	-	154	2,552	912	3,448
Abalone, miscellaneous.	-	-	-	1,678	\$4,191	\$1,629	\$1,150
Clam.....	48	400	-	1,679	-	7	1,877
Mussel.....	\$34	800	-	\$1,696	-	\$10	\$2,154
Oyster, eastern.....	-	12,815	723	43	-	100	31
Octopus.....	32,743	3,363	\$362	147	-	\$60	\$196
Oyster, eastern.....	\$12,673	\$1,425	\$414	\$476	868	\$98	\$14,972
Oyster, European flat..	-	270	-	-	-	-	270
Oyster, giant Pacific..	636,325	309,737	-	78,372	-	-	\$1,136,434
Squid, market.....	\$591,782	\$472,126	-	\$72,888	-	-	\$1,136,796
Snail, sea.....	-	315	-	201	20,415	96	21,027
Squid, jumbo.....	-	828	-	\$67	\$4,864	\$25	\$4,988
Squid, market.....	202	143	20,655,397	2,584,009	14,558,476	401	37,798,628
Total pounds.....	65,340,990	29,281,262	40,952,680	49,309,463	326,175,745	158,393,534	670,053,674
Total value.....	\$25,694,168	\$11,633,995	\$10,191,364	\$9,824,549	\$95,551,490	\$63,847,575	\$216,743,141
SHIPMENTS:							
Fish:							
Tuna, albacore.....	-	-	-	-	27,109,806	8,989,274	36,099,080
Tuna, bigeye.....	-	-	-	-	\$19,834,550	\$7,048,675	\$26,883,225
Tuna, bluefin.....	-	-	-	-	2,532,622	392,522	2,925,112
Tuna, skipjack.....	-	-	-	-	\$10,140,900	2,925	\$1,136,434
Tuna, skipjack, black..	-	-	-	-	41,790	385,682	427,472
Tuna, yellowfin.....	-	-	-	-	\$17,134	\$158,130	\$175,264
Total pounds.....	-	-	-	-	74,728,090	70,067,070	144,300,000
Total value.....	-	-	-	-	\$32,728,090	\$29,268,253	\$61,396,352
Grand total pounds..	65,340,990	29,281,262	40,952,680	49,309,463	456,200,265	276,350,565	670,053,674
Grand total value... \$25,694,168	\$11,633,995	\$10,191,364	\$9,824,549	\$165,579,106	\$118,040,800	\$340,963,382	\$216,743,141

TABLE 5—Cont'd.

TABLE 6. Value of Landings and Shipments of Commercial Fish Into California by Area, 1979

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
Fish:							
Anchovy, northern.....	-	949,466	7,161,700	17,247,400	\$2,011,400	26,215	107,396,181
Barracuda, California.....	-	\$112,632	\$211,111	\$418,519	\$2,121,020	\$1,359	\$2,864,641
Blacksmith.....	-	-	196	1,952	17,398	17,781	37,327
Bass, giant sea.....	492	79	869	4,407	15,748	10,247	40,942
Bonito, Pacific.....	8	884	\$1,321	\$3,372	\$10,202	\$13,547	35,580
Butterfish, Pacific.....	88	-	796	21,993	3,127,970	809,304	3,960,071
Cabezon.....	1,877	538	29,127	85,109	\$606,638	\$177,185	6789,194
Cabreton.....	\$1,497	\$619	\$30,914	\$12,836	\$36,242	\$473	882,581
Croaker, white.....	211	69,954	113,964	124,874	402,419	4,893	88,247
Eel.....	-	6,369	3,890	40,046	3	19	50,327
Flyingfish.....	-	6,377	489	89,356	81	84	88,247
Flounder, miscellaneous	327,983	355,623	90,827	52,918	13	-	603,515
Flounder, arrowtooth...	238,049	155	-	\$17,808	88	-	230,049
Hake, Pacific.....	824,037	\$28	-	-	-	-	824,065
Grenadier.....	-	-	-	-	61,931	-	61,931
Grouper.....	65,428	8,745	5,625	-	\$24,241	-	824,411
Herring, Pacific.....	\$6,514	\$875	\$564	-	-	-	87,953
Lingcod.....	-	-	302	4,714	10,727	-	15,743
Mackerel.....	1,830,500	4,705	-	\$242	\$1,982	\$3,782	1,836,264
Mullet, striped.....	\$140,823	\$326	-	-	433	626	\$141,305
Halibut, California.....	386	89,637	39,569	371,663	124,540	48,751	665,546
Herring, Pacific.....	\$740	\$105,302	\$39,071	\$549,170	\$161,735	\$59,463	887,018
Lingcod.....	119,981	9,139,910	125,411	154	33	-	9,389,489
Opaleye.....	865,940	\$6,885,770	\$26,452	553	87	-	6,982,222
Queenfish.....	1,200,390	1,200,390	30,522	409,752	5,986	1,160	3,161,120
Rockfish group, bocaccio/chili	44,574	9,062	404,375	10,979,400	79,001,200	107,837	90,546,448
Rockfish group, bocaccio/chili	\$5,285	\$1,036	\$41,096	\$766,472	\$5,618,710	\$17,352	\$6,449,951
Opaleye.....	-	-	-	-	-	17,110	17,110
Queenfish.....	-	-	-	115	4,905	99,115	99,115
Rockfish group, bocaccio/chili	-	-	-	849	\$2,100	315	5,335
Rockfish group, bocaccio/chili	-	-	29	774	1,636	87	2,229
Rockfish group, bocaccio/chili	-	-	-	810	\$196	606	606
Rockfish group, bocaccio/chili	-	-	-	-	6559	834	8799
Rockfish group, bocaccio/chili	-	-	-	-	964	8,935,837	8,935,837
Rockfish group, bocaccio/chili	-	-	-	-	\$169,492	389	\$1,936,720

TABLE 6. Value of Landings and Shipments of Commercial Fish Into California by Area, 1979

MARINE FISH LANDINGS 1977-1986

21

Rockfish, miscellaneous	9,934,100	2,186,996	1,955,027	3,211,366	1,051,910	1,293,083	19,632,492
Sablefish.....	\$1,995,090	\$533,491	\$542,316	\$1,200,216	\$497,438	\$570,029	\$5,338,580
Sablefish.....	9,198,020	2,150,480	6,132,396	1,893,650	8,138,550	1,060,510	28,573,600
Salmon.....	8,000,000	\$5,000,000	\$1,000,000	\$800,000	\$1,707,500	\$282,711	\$6,000,000
Salmon.....	5,903,142	2,234,562	510,742	101,282	50	-	8,749,778
\$14,512,403	\$5,811,079	\$1,387,750	\$892,134	\$132	-	-	\$22,003,498
Sanddab, Pacific.....	677,598	421,600	209,710	8,413	3,292	2,045	1,100,79
Sanddab, Pacific.....	\$220,498	\$139,109	\$70,357	\$2,778	\$1,830	\$1,636	\$436,208
Sardine, Pacific.....	-	-	-	-	20,572	-	20,572
Sardine, Pacific.....	-	-	-	-	\$1,440	-	\$1,440
Sculpin.....	-	-	-	42	1,594	19,608	32,515
Sculpin.....	-	-	-	87	\$9,432	\$14,078	\$23,517
Seahorse, white.....	-	-	679	48,028	514,135	642,824	1,205,666
Seahorse, white.....	-	-	\$1,044	\$69,255	\$40,019	\$658,111	\$1,212,819
Shark, bonito.....	-	-	-	301	32,974	1,059	35,344
Shark, common thresher.....	-	-	-	\$107	\$18,596	\$847	\$19,550
Shark, common thresher.....	4,546	8	178,358	522,100	33,116	-	735,743
Shark, common angel.....	\$2,039	84	\$101,083	\$307,431	\$16,694	\$47,631	-
Shark, common angel.....	-	73	127,478	43	701	128,295	-
Shark, soupfin.....	17,264	58,202	13,013	65,333	38,154	8,192	\$30,937
Shark, soupfin.....	\$5,717	\$15,953	\$3,234	\$33,221	\$20,425	\$83,492	\$12,042
Shark, miscellaneous.....	2,494	129,777	70,711	308,143	432,893	233,203	1,157,227
Shark, miscellaneous.....	883	\$35,536	\$13,754	\$114,442	\$214,111	\$94,111	\$47,466
Sheephead, California.....	-	-	-	4,275	682	8,019	-
Sheephead, California.....	-	-	-	\$1,217	\$1,541	\$290	\$3,048
Skate.....	101,196	46,626	79,859	79,561	200	-	309,521
Skate.....	\$24,546	\$11,802	\$13,924	\$13,444	678	-	\$63,564
Smeat, top or jack.....	2,148	26,476	3,160	1,138	27,199	-	60,121
Smeat, top or jack.....	\$216	\$4,168	\$757	\$138	\$4,115	-	\$9,394
Smeat, true.....	187,156	11,939	2,167	153	193	-	202,839
Smeat, true.....	821,026	\$3,542	8422	87	\$192	-	\$25,189
Smeat, whitebait.....	287,759	36,324	19,613	879	110	-	344,685
Sole, butter.....	810,916	85,980	8253	\$19	-	-	\$86,996
Sole, butter.....	146,807	1,425	20	-	149,222	-	-
Sole, butter.....	\$30,851	\$242	87	-	-	31,100	-
Sole, Dover.....	18,088,500	2,394,430	2,637,380	73,781	-	-	23,394,091
Sole, Dover.....	\$8,117,70	\$511,335	\$611,335	\$15,569	-	-	\$4,714,44
Sole, English.....	2,615,480	1,411,500	443,140	534,847	1,871	122	5,006,960
Sole, petrale.....	8772,284	\$426,104	\$111,613	\$157,804	\$653	\$47	\$1,468,505
Sole, petrale.....	1,157,50	73,778	36,494	14,952	159	910	1,068,810
Sole, petrale.....	\$675,021	\$328,612	\$118,880	\$242,351	891	9734	\$1,165,469
Sole, rex.....	1,442,850	296,805	100,547	72,782	1,821	-	1,914,805
Sole, rex.....	845,266	97,497	\$33,016	\$22,134	\$659	-	\$620,562
Sole, sand.....	153,564	193,702	12,312	5,26	-	570,444	-
Sole, sand.....	\$169,072	\$74,372	\$4,343	\$2,283	-	-	\$250,070
Sole, miscellaneous.....	484	2,811	2,129	12,321	533	1,761	20,039
Sole, miscellaneous.....	2,086	912	512	\$4,146	\$232	1,922	\$7,466
Surfperch.....	72,770	15,295	4,460	47,861	42,893	17,881	201,160
Surfperch.....	\$38,174	\$11,711	\$2,216	\$35,912	\$14,161	\$9,263	\$111,431
Swordfish.....	-	-	75	59,824	\$430,546	\$5,404	586,529
Swordfish.....	-	-	62,643	\$127,764	\$1,327,770	\$293,663	\$1,111,810
Thornyhead.....	3,236,300	337,099	500,951	21,590	-	-	4,095,940
Thornyhead.....	\$715,779	\$711,339	\$109,855	\$4,898	-	-	\$901,871
Tuna, albacore.....	7,654	801,314	2,010,350	1,004,910	887,110	84,098	8,409,098
Tuna, albacore.....	\$512,564	\$592,109	\$1,893,530	\$1,337,530	\$628,647	\$571,137	\$5,535,517

TABLE 6—Cont'd.

TABLE 6 (continued). Value of Landings and Shipments of Commercial Fish Into California by Area, 1979

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Tuna, bigeye.....	-	-	-	-	649,045	918,091	1,567,136
Tuna, bluefin.....	-	-	-	-	826,357	810,485	1,706,992
Tuna, 401.....	401	-	-	-	5,142,460	4,129,230	13,273,915
Tuna, skipjack.....	\$843	-	-	\$536	\$4,280,780	\$1,777,980	\$6,060,139
Tuna, skipjack.....	1,257	558	17	610	50,594,400	44,199,100	94,796,032
Tuna, skipjack, black.....	\$2,956	\$1,339	\$218	\$251	\$19,200,000	\$15,700,000	\$35,900,000
Tuna, yellowfin.....	-	-	-	-	530,665	116,201	646,866
Tuna, 42.....	-	42	-	1,733	96,852,900	74,988,100	165,845,675
Tuna, miscellaneous.....	\$15	-	-	\$887	\$49,525,900	\$32,164,000	\$72,689,000
Turbot.....	435	-	-	1,308	1,322,100	54,433	81,888
Turbot.....	\$301	-	-	\$1,322,100	\$8,172	\$2,221	\$86,016
Turbot.....	17,501	6,934	1,125	1,613	10,444	-	157
Mahoo.....	\$5,619	\$2,427	\$305	\$1,487	\$8,934	-	\$18,772
Mahoo.....	-	-	-	-	6,304	4,434	10,738
Yellowtail.....	-	140	159	1,752	143,678	281,883	427,612
Miscellaneous fish.....	78	878	556	\$598	\$62,033	\$107,287	\$170,052
Miscellaneous fish.....	26,516	6,046	14,755	62,007	237,724	7,078	355,006
Miscellaneous fish.....	\$1,758	\$2,238	\$1,119	\$21,343	\$91,634	\$3,066	\$124,458
Crustacean:							
Crab, Dungeness.....	12,236,700	670,891	6,845	63,579	390	-	12,978,505
Crab, Dungeness.....	\$8,118,840	\$956,444	\$97,720	\$46,570	234,8	-	\$8,222,722
Crab, rock.....	4,434	4,594	1,662	617,973	235,700	89,227	953,590
Crab, rock.....	\$4,052	\$2,747	\$651	\$343,695	\$143,970	\$45,903	\$541,018
Crab, spider.....	-	-	-	2,127	12,108	-	84,402
Lobster, California.....	-	-	-	\$953	\$4,661	-	85,14
Lobster, California, spiny.....	-	123	-	109,828	103,204	206,374	419,529
Prawn, ridgeback.....	-	368	-	\$908,700	\$309,198	\$736,091	\$1,354,165
Prawn, spot.....	2	130	6,461	77,167	18	-	\$228,161
Shrimp, Pacific ocean.....	4,289,380	84	\$219	\$25,192	817,197	\$52	83,778
Shrimp, Pacific ocean.....	4,289,380	8,745	27,577	857,001	-	-	83,778
Shrimp, miscellaneous.....	\$1,619,820	\$4,548	\$7,034	\$366,802	-	-	5,187,903
Shrimp, miscellaneous.....	-	42	17	-	10,430	4	\$1,998,204
Miscellaneous crustacean.....	-	\$2,605	-	\$8,308	\$20	-	52,757
Miscellaneous crustacean.....	-	340	-	346	-	-	866
Echinoderm:							
Sea cucumber.....	-	-	-	-	69,438	-	69,438
Sea urchin.....	193,538	42,608	24	13,822,600	4,579,170	1,921,010	20,558,950
Sea urchin.....	\$26,241	\$8,541	\$14	\$2,167,220	\$690,055	\$194,051	\$3,086,122
Mollusk:							
Abalone, black.....	-	-	-	196,722	113,217	20,989	330,928
Abalone, green.....	-	-	-	\$173,672	\$106,598	\$1,851	\$1,21
Abalone, green.....	-	-	-	4,249	43,530	13,548	61,327
Abalone, green.....	-	-	-	\$7,969	\$79,237	\$25,192	\$112,398

TABLE 6. Value of Landings and Shipments of Commercial Fish Into California by Area, 1979

MARINE FISH LANDINGS 1977-1986

23

Abalone, pink.....	-	-	-	84,137	\$1,466	20,780	186,383	
Abalone, red.....	-	47,251	105	\$133,597	\$90,003	\$24,805	\$256,405	
Abalone, white.....	-	\$81,594	\$168	364,608	5,796	21,709	439,469	
Abalone, miscellaneous.	-	-	-	523,313	\$6,814	\$30,450	\$642,209	
Clam.....	225	2,517	-	265	48	189	189,022	
Clam.....	225	84,266	-	4468	\$116	\$422	\$1,006	
Mussel.....	-	90,500	21,246	669	631	81	3,898	
Mussel.....	\$225	-	257,035	621,094	28	\$26	56,477	
Octopus.....	-	4,198	\$7,466	95	-	-	36,768	
Octopus.....	-	64,053	\$345	-	-	-	4,701	
Octopus.....	86,440	11,068	1,079	5,845	635	90	84,938	
Oyster, eastern	\$38,200	\$4,800	\$823	\$2,259	\$755	\$84	106,157	
Oyster, giant Pacific..	580,687	404,412	-	148,628	380	-	\$46,921	
Oyster, European flat..	\$626,118	\$697,27	-	\$156,059	\$68	-	81	
Squid, market.....	980	48	28,366,100	329,574	14,709,500	1,440	3,407,642	
Miscellaneous mollusk..	\$224	85	\$3,436,150	\$13,962	\$693,964	144	84,144,749	
Miscellaneous mollusk..	-	544	-	8,569	30,586	533	4,232	
Miscellaneous mollusk..	-	819	-	\$3,632	\$7,404	\$130	\$11,285	
Total pounds.....	76,793,144	29,075,242	55,442,148	58,764,031	349,845,097	132,322,790	702,242,452	
Total value....	\$37,684,624	\$18,728,124	\$10,788,968	\$11,502,078	\$81,986,827	\$54,008,318	\$214,698,939	
SHIPMENTS:								
Fish.....	-	-	-	-	-	-	-	
Tuna, albacore.....	-	-	-	17,481,100	3,179,860	20,660,960		
Tuna, bigeye.....	-	-	-	\$14,400,000	\$2,606,730	\$17,207,330		
Tuna, bluefin.....	-	-	-	427,920	-	1,920		
Tuna, skipjack.....	-	-	-	\$279,292	-	\$279,292		
Tuna, skipjack, black..	-	-	-	6,100	108,017	114,077		
Tuna, yellowfin.....	-	-	-	5,682	\$50,228	\$50,228		
Tuna, skipjack.....	-	-	-	49,052,200	44,645,000	93,697,200		
Tuna, skipjack, black..	-	-	-	\$21,799,100	\$21,038,400	\$42,837,500		
Tuna, yellowfin.....	-	-	-	3,081	24,206	24,206	\$7,287	
Total pounds.....	-	-	-	11,753,300	20,583,000	32,336,300		
Total value....	-	-	-	\$6,238,110	\$9,690,960	\$15,929,070		
Grand total pounds...	76,793,144	29,075,242	55,442,148	58,764,031	349,856,487	132,322,790	702,242,452	
Grand total value....	\$37,684,624	\$18,728,124	\$10,788,968	\$11,502,078	\$81,986,827	\$54,008,318	\$214,698,939	

TABLE 6—Cont'd.

TABLE 7. Value of Landings and Shipments of Commercial Fish Into California by Area, 1980

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
Fish:							
Anchovy, northern.....	-	1,005,600	6,679,590	22,817,100	64,175,000	458	94,677,748
Barracuda, California.....	-	\$113,061	\$174,985	\$600,981	\$1,657,560	\$131	\$2,546,718
Bass, giant sea.....	-	-	-	188	62,185	4,350	66,535
Bonito, Pacific.....	-	-	-	2,513	10,792	2,972	44,590
Bonito, Pacific.....	-	28	230	2,765	12,340,200	1,390	38,623
Butterfish, Pacific.....	-	\$14	\$103	\$979	\$2,463,210	\$380,043	\$2,844,349
Cabezon.....	102	798	45,597	8,973	37,624	335	93,727
Cabezon.....	3,961	\$39	\$56,099	64,159	\$1,159	\$240	89,675
Croaker, white.....	819	6775	\$892	86,183	\$2,348	22	810,219
Dolphinfish.....	45	61,477	659,631	123,776	217,538	5,684	1,041,111
Dolphinfish.....	917	\$25,992	\$165,843	\$42,425	\$68,180	\$2,595	\$305,252
Flounder, arrottooth...	-	-	8	-	2,947	1,552	4,507
Flounder, arrottooth...	122,744	76	-	-	8559	8886	81,358
Flounder, miscellaneous	\$12,396	\$16	-	-	-	-	12,820
Grenadier.....	153,292	486,048	50,943	50,873	-	16	912,412
Grouper.....	\$36,751	\$123,447	\$20,681	\$18,218	-	\$5	741,172
Hake, Pacific.....	-	-	-	-	61,333	-	61,333
Hake, Pacific.....	88,528	3,340	-	-	\$24,579	-	824,579
Herring, Pacific.....	89,712	\$335	-	-	-	-	10,668
Herring, Pacific.....	151,173	1,242,400	34,949	44,907	-	-	\$10,047
Lingcod.....	\$155,500	\$16,113,600	\$146,407	\$515	\$11	-	10,638
Mackerel.....	1,063,890	913,875	523,407	303,683	3,698	2,244	2,810,797
Mackerel.....	\$267,383	\$224,918	\$10,419	\$86,122	\$11,112	\$1,952	301,031
Mullet, striped.....	3,337	110	94,916	9,861,940	\$9,484,000	65,992	110,176,295
Mullet, striped.....	81,421	811	\$79,016	\$827,580	\$8,812,390	\$13,959	\$9,734,377
Opaleye.....	-	-	-	-	7	46,759	46,759
Opaleye.....	-	-	-	-	\$4	\$25,357	\$25,351
Queenfish.....	-	-	-	60	6,074	-	6,134
Rockfish group, boccaccio/chili.....	698,442	3,424,924	3,021,269	2,515,667	455,341	-	\$4,065
Rockfish, miscellaneous	\$127,725	\$65,345	\$65,345	\$53,568	\$1,814	860	10,115,735
Rockfish, miscellaneous	16,178,247	\$120,399	3,001,564	2,935,433	1,109,305	1,112,068	26,031,066
	\$2,480,568	\$451,141	\$716,786	\$1,078,842	\$571,363	\$510,110	\$5,808,810

Sablefish.....	5,460,350	1,311,020	1,694,070	650,731	1,011,210	140,449	10,281,930
\$905,593	\$198,295	\$317,838	\$119,529	\$181,771	\$30,368	\$1,751,94	
Salmon.....	3,148,247	2,062,847	699,787	12,063	19	38	6,023,229
\$6,148,446	\$4,522,44	\$1,610,935	\$274,940	\$4,930	1,646	1,336	\$13,300,553
Sanddab, Pacific.....	662,786	450,756	155,205	4,419	1,662	1,446	1,280,74
\$215,700	\$155,128	\$43,850	\$1,221	\$1,813	\$1,825	\$419,537	
Sardine, Pacific.....	-	-	150	-	46,639	-	46,839
-	-	845	-	44,181	-	44,181	
Sculpin.....	-	-	-	61	10,960	48,147	59,168
-	-	-	-	89,231	\$41,699	\$41,699	
Seabass, white.....	-	-	1,315	42,130	36,593	56,322	850,961
-	-	-	\$1,885	\$60,162	\$474,942	\$663,067	\$1,200,056
Shark, bigeye thresher.....	-	10,803	-	-	39	-	10,842
Shark, bonito.....	58	694	-	-	27	27	\$2,067
\$11	\$130	-	9,987	126,203	18,394	16,136	
Shark, common thresher.....	-	378	827	270,028	1,213,250	321,524	1,806,007
-	939	-	\$367	\$17,035	\$837,242	\$211,114	\$1,210,110
Shark, Pacific angel.....	-	2,406	-	108,216	-	1,422	112,051
-	8600	-	-	7	-	-	
Shark, soupfin.....	19,000	50,304	29,634	28,739	835	8463	\$29,837
\$7,012	\$13,728	\$6,882	\$24,710	86,442	\$21,154	\$79,928	
Shark, miscellaneous.....	784	88,976	71,528	120,834	839,734	301,779	1,423,633
\$237	\$28,671	\$16,189	\$68,053	\$50,000	\$174,725	\$789,331	\$1,200,056
Sheephead, California.....	-	-	-	4,418	3,319	1,688	5,105
-	-	-	\$1,530	\$1,294	\$4455	\$3,279	
Skate.....	65,160	20,650	56,192	12,347	858	-	155,216
\$16,192	\$4,505	\$9,140	\$1,240	\$207	-	-	\$16,192
Smelt, top or jack.....	367	3,285	7,396	287	21,835	511	33,685
838	\$1,121	\$1,505	\$76	\$3,308	\$234	\$6,282	
Smelt, true.....	110,210	104,244	1,246	-	14,345	-	110,210
\$13,027	\$2,926	\$303	-	\$139	-	\$16,395	
Smelt, whitebait.....	388,548	36,631	12,046	-	869	-	338,094
\$10,066	\$11,939	\$4,630	-	\$159	-	\$11,939	
Sole, Dover.....	1,529,500	2,000,880	82,472	123,472	-	-	18,046,924
\$2,963,440	\$441,391	\$177,135	\$76,937	-	-	-	\$3,658,903
Sole, English.....	2,049,810	1,643,260	570,625	309,630	132	-	5,394,524
\$4,098	\$447,640	\$177,135	\$92,446	\$79	-	-	\$339,475
Sole, petrale.....	1,184,340	614,311	265,802	286,009	-	63	2,350,525
\$539,445	\$271,864	\$122,133	\$133,527	-	\$76	\$1,067,041	
Sole, rex.....	1,130,400	59,592	59,592	1,630	-	-	1,130,400
\$444,222	\$117,780	\$18,775	\$25,810	-	-	\$634,587	
Sole, sand.....	146,571	201,120	3,983	5,107	-	-	356,781
\$95,052	\$70,444	1,845	\$1,494	-	-	\$1,494	
Sole, miscellaneous.....	59,088	6,193	15,596	15,582	1,412	1,509	99,580
\$12,327	\$2,211	\$4,910	\$5,509	\$881	\$529	\$26,367	
Surferch.....	39,531	36,255	2,628	33,880	2,415	15,996	162,952
\$20,299	\$34,578	\$667	\$2,630	\$12,687	\$955	\$16,192	
Swordfish.....	-	248	-	119,216	812,578	265,145	1,197,187
-	955	-	\$307,757	\$82,113,950	\$719,314	\$3,141,827	
Thornthead.....	2,958,890	270,288	144,023	13,120	210	-	3,288,218
\$677,417	\$61,139	\$32,280	\$3,252	\$130	-	-	\$774,218
Tuna, albacore.....	1,510,110	1,388,050	2,678,860	2,751,170	1,534,400	2,096,170	11,958,760
\$1,211,900	\$1,107,940	\$2,103,000	\$2,177,000	\$1,252,000	\$1,020,000	\$1,020,000	\$5,555,050
Tuna, bigeye.....	-	-	144	670	1,231,920	777,353	1,200,056
-	-	-	\$108	\$670	\$723,642	\$443,268	\$1,167,688

TABLE 7—Cont'd.

TABLE 7 (continued). Value of Landings and Shipments of Commercial Fish Into California by Area, 1980

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Tuna, bluefin.....	-	-	80	-	3,464,750	1,906,170	5,371,000
			\$30	-	\$2,137,670	\$1,131,370	\$3,269,070
Tuna, skipjack.....	412	-	40	-	83,570,200	90,835,400	174,406,052
	\$227		\$200	-	\$45,771,000	\$46,192,000	\$91,964,527
Tuna, skipjack, black..	-	-	-	-	13,250	82,135	52,185
				-	\$1,325	\$4,213	\$5,538
Tuna, yellowfin.....	16	50	55	362	91,048,700	99,135,800	190,185,117
	\$76	\$18	\$29	\$345	\$55,028,000	\$57,560,000	\$112,588,566
Tuna, miscellaneous....	-	-	616	-	91,610	46,132	138,358
			\$505	-	\$90,295	\$31,646	\$122,446
Turbot.....	12,800	3,651	-	4,287	-	-	13,939
	\$4,249	\$1,142	-	\$990	-	-	\$6,381
Mahoo.....	-	-	-	-	3,890	2,859	6,749
				-	\$2,122	\$2,122	\$6,749
Yellowtail.....	-	100	1,627	4,207	207,877	152,365	365,176
		\$50	\$656	\$1,914	\$95,856	\$72,919	\$171,395
Miscellaneous fish....	2,941	4,434	14,988	47,972	192,423	2,585	263,563
	\$75	\$1,454	\$1,570	\$10,744	\$71,191	\$830	\$114,444
Crustacean:							
Crab, Dungeness.....	15,247,600	622,815	5,233	57,105	537	1,488	15,934,778
	\$9,127,240	\$550,015	\$7,140	\$44,258	\$314	\$311	\$9,774,498
Crab, rock.....	16,176	2,334	88	622,261	314,017	129,081	1,083,957
	\$8,728	\$2,142	\$44	\$452,323	\$224,194	\$81,216	\$768,647
Crab, spider.....	-	2,142	-	2,133	7,36	-	8,469
			-	\$988	\$3,271	-	\$4,259
Lobster, California spiny.....	-	-	51	114,970	149,385	151,843	416,249
			\$17	\$59,984	\$509,130	\$485,587	\$1,035,168
Prawn, ridgeback.....	-	-	-	281,661	-	-	281,661
				\$202,865	-	-	\$202,865
Prawn, spot.....	-	1,668	7,737	-	-	1,114	213,826
			\$27,771	\$422,774	-	\$3,315	\$426,560
Shrimp, Pacific ocean.....	2,417,250	2,317	147	1,448,500	-	-	3,868,214
	\$1,336,440	\$1,308	\$82	\$846,591	-	-	\$2,184,421
Shrimp, miscellaneous....	-	-	323	8,088	112	158	8,571
			\$906	\$6,188	\$124	\$474	\$1,492
Miscellaneous crustacean....	-	225	-	-	-	-	225
		\$135	-	-	-	-	\$135
Echinoderms:							
Sea cucumber.....	-	-	-	9,215	13,845	-	23,060
				\$8,843	\$5,530	-	\$5,373
Sea urchin.....	196,661	12,380	167	17,014,800	2,851,000	2,084,090	22,905,000
	\$24,975	\$2,589	\$94	\$2,902,200	\$485,481	\$249,752	\$3,665,091
Mollusk:							
Abalone, black.....	-	77	-	332,279	171,261	14,931	510,548
			-	\$380,274	\$214,316	\$17,962	\$612,552
Abalone, green.....	-	-	-	2,925	46,980	13,276	63,181
				\$8,945	\$106,144	\$27,416	\$146,635
Abalone, pink.....	-	108	133	65,784	46,828	12,053	136,666
		\$338	\$213	\$130,603	\$100,943	\$58,751	\$290,810

TABLE 7. Value of Landings and Shipments of Commercial Fish Into California by Area, 1980

MARINE FISH LANDINGS 1977-1986

Abalone, red.....	63,336	864	408,979	4,441	39,111	516,731
Abalone, white.....	-	\$123,651	\$1,148	\$810,659	\$8,491	\$1,022,111
Abalone, miscellaneous.....	-	-	37	220	819	1,076
Clam.....	-	-	882	861c	82,841	\$3,533
Clam.....	12	-	265	268	11	265
Mussel.....	894	-	8351	\$1,252	82	81,729
Clam.....	7,866	-	40	-	-	7,906
Mussel.....	92,441	-	834	-	-	\$2,465
Oyster, eastern.....	971	100	391	60	-	1,122
Oyster, giant Pacific.....	83,818	8245	850	\$189	821	8505
Squid, market.....	83,806	39,181	4,920	1,265	620	129,804
Miscellaneous mollusk..	87	18,359	\$2,672	\$533	\$1,020	\$60,390
Oyster, eastern.....	111	-	-	-	-	111
Oyster, European flat..	-	8578	-	-	-	8578
Tuna, albacore.....	464	2,017	-	-	-	2,481
Tuna, blackfin.....	559,665	239,803	25,544	38,184	-	\$1,067
Tuna, bigeye.....	\$593,227	\$464,359	84,613	\$40,838	-	863,196
Tuna, skipjack.....	731	125	15,712,600	2,417,890	15,775,600	10,670
Tuna, yellowfin.....	87	664	\$2,008,200	\$141,066	\$883,320	\$1,411
Tuna, miscellaneous.....	87	1,475	-	6,252	27,280	253
Total pounds.....	72,612,261	36,720,466	38,251,737	67,336,257	383,939,538	201,862,544
Total value....	\$28,990,817	\$26,973,350	\$8,833,878	\$14,128,342	\$125,941,742	\$111,064,610
Grand total pounds..	72,612,261	36,720,466	38,251,737	67,336,257	500,727,689	294,878,752
Grand total value...	\$28,990,817	\$26,973,350	\$8,833,878	\$14,128,342	\$120,514,214	\$170,883,139
Total pounds.....	-	-	-	-	116,788,051	93,016,208
Total value....	-	-	-	-	\$82,572,472	\$59,818,529
Grand total pounds..	72,612,261	36,720,466	38,251,737	67,336,257	500,727,689	294,878,752
Grand total value...	\$28,990,817	\$26,973,350	\$8,833,878	\$14,128,342	\$120,514,214	\$170,883,139

27

TABLE 7—Cont'd.

TABLE 8. Value of Landings and Shipments of Commercial Fish Into California by Area, 1981

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
Fish:							
Anchovy, northern.....	-	465,138	10,178,610	20,049,132	84,620,938	3,771	115,317,479
Barracuda, California.....	-	952,516	\$268,427	\$51,784	\$2,745,111	4,654	\$3,226,892
Bass, giant sea.....	25	-	-	1,038	56,163	9,593	67,594
Bass, giant sea.....	20	820	14	\$1,329	\$42,533	\$6,600	\$50,462
Bonito, Pacific.....	-	53	-	2,202	2,037	2,160	5,393
Butterfish, Pacific.....	-	824	8384	\$6,618	\$10,367	\$24,470	\$37,196
Cabeson.....	-	422	26,953	30,940	3,940	657	37,511
Cabezon.....	412	839	\$44,776	\$16,180	\$13,382	301	\$74,978
Cabezon.....	928	13,498	2,285	37,002	90	173	53,460
Croaker, white.....	90	57,004	608,903	123,163	184,050	841	978,734
Dolphinfish.....	834	\$26,692	\$142,936	\$49,954	\$65,309	\$2,789	\$287,714
Grenadier.....	-	41	-	5	122	822	844
Grouper.....	-	841	820	-	844	2,461	82,566
Flounder, arrowtooth.....	105,537	-	-	-	-	13	105,550
Flounder, arrowtooth.....	832	-	-	-	-	83	834,585
Flounder, miscellaneous	159,790	405,494	35,792	53,305	25	600	814,466
Flounder, miscellaneous	843,218	\$114,829	\$15,181	\$18,760	\$22	\$30	\$192,040
Flyingfish.....	-	-	-	-	54,588	-	54,588
Grenadier.....	72,438	-	-	-	25,853	-	25,853
Grouper.....	87,130	-	-	-	-	-	72,438
Hake, Pacific.....	1,442,424	24,669	85	26	4,644	10	87,130
Hake, Pacific.....	811,527	62,542	817	8	85	85	82,227
Halfmoon.....	-	-	-	518	2,379	366	2,743
Halibut, California.....	1,092	317,965	40,709	680,175	173,316	\$20	\$1,846
Halibut, California.....	81,020	\$336,462	\$48,455	\$1,165,341	\$286,839	\$75,654	1,251,265
Herring, Pacific.....	102,446	12,763,055	276,789	-	15	-	13,142,305
Herring, Pacific.....	860,722	\$4,678,412	\$34,298	-	86	-	\$4,773,438
Lingcod.....	1,140,111	4,092	40,979	352,602	9,075	8,244	2,092
Lingcod.....	8296,823	\$219,330	\$84,666	\$79,968	\$3,867	\$4,693	\$689,347
Mackerel.....	4,318	4,280	3,462,902	17,022,512	96,660,978	55,331	117,210,321
Mullet, striped.....	-	\$516	\$878	\$318,365	\$1,602,265	\$9,051,780	\$10,998,346
Mullet, striped.....	-	-	-	-	-	29,654	29,654
Opah.....	-	-	-	-	-	20,030	20,030
Opah.....	-	-	-	-	695	2,293	2,969
Opahye.....	-	-	-	-	8471	81,264	81,735
Ray, miscellaneous.....	-	-	-	-	5,272	90	5,362
Rockfish group, bocaccio/chilli	318,922	2,503,637	2,066,832	2,467,968	460,216	13,792	7,831,367
Rockfish group, bocaccio/chilli	851,536	\$431,724	\$361,972	\$497,295	\$155,413	\$5,087	\$1,503,027

TABLE 8. Value of Landings and Shipments of Commercial Fish Into California by Area, 1981

Rockfish, widow.....	1,589,761	3,331,308	46,875	-	-	-	-	4,967,944
Rockfish, miscellaneous	14,424,508	4,977,547	2,455,511	2,713,868	1,340,721	1,634,195	27,295,230	8763,327
Sablefish.....	6,574,659	899,381	5,006	\$1,154,615	\$749,777	\$755,604	3,442,922	3,442,922
Salmon.....	81,400,655	261,557	\$299,495	106,530	3,468,310	32,680	14,727,481	14,727,481
Salmon, pink.....	2,400,000	6,000	6,750	11,900	10	-	6,750	6,750
Salmon, chum.....	87,628,475	\$5,567,194	\$1,621,267	8350,602	82	-	\$15,167,453	\$15,167,453
Sanddab, Pacific.....	338,387	458,746	132,611	9,660	1,172	1,587	942,163	942,163
Sardine, Pacific.....	8111,760	\$156,752	\$40,837	\$2,796	81,443	\$1,300	8114,888	8114,888
Squid.....	-	-	5	-	32,512	-	554	554
Sculpin.....	-	-	-	10	87	\$1,012	82,913	82,913
Seabass, white.....	-	-	8106	\$147	\$36,596	89,764	846,613	846,613
Shark, bonito.....	-	16	339	23,491	362,902	389,285	776,033	776,033
Shark, common thresher.....	168	20	-	\$39,281	\$491,656	\$538,726	\$1,070,117	\$1,070,117
Shark, Pacific angel....	\$69	81	-	\$6,080	\$120,673	\$35,447	\$162,270	\$162,270
Shark, soupfin.....	8,459	8,459	919	810	275,981	1,017,627	678,700	1,974,037
Shark, miscellaneous.....	2,641	96,441	32,166	77,450	561,692	139,206	909,596	909,596
Sheephead, California.....	\$1,184	\$33,784	\$8,378	\$43,760	\$336,544	\$88,681	\$512,331	\$512,331
Sole, Dover.....	16,199,168	2,945,802	1,138,118	135,195	8115	1,225	880,518	85,001
Sole, English.....	\$3,575,274	\$646,792	\$250,138	426,855	-	-	631,420	631,420
Sole, petrale.....	4,219	4,989	4,120	4,425	489,752	12	-	84,499,059
Sole, petrale.....	\$489,667	\$395,524	\$121,039	\$140,450	85	-	3,773,262	3,773,262
Sole, rex.....	743,872	456,080	247,491	287,589	22	-	81,665	81,665
Sole, sand.....	832,641	\$218,914	\$118,832	\$146,036	\$82	-	1,775,054	1,775,054
Sole, sand.....	1,223,911	303,377	65	147,707	-	44	886,625	886,625
Sole, sand.....	\$408,801	\$104,619	\$18,877	\$48,776	-	\$13	8581,086	8581,086
Sole, sand.....	115,686	309,242	4,741	3,145	-	29	439,843	439,843
Sole, sand.....	141,652	\$143,529	\$13,139	93,11	-	815	819,542	819,542
Sole, miscellaneous.....	27,037	8,124	9,130	12,757	584	340	872	872
Surfperch.....	\$4,620	\$3,054	\$3,503	\$4,128	\$365	8173	\$15,843	\$15,843
Swordfish.....	56,932	3,664	3,118	4,167	22,518	24,516	182,675	182,675
Swordfish.....	\$39,608	\$32,933	8165	\$39,243	\$10,099	\$10,099	813,138	813,138
Thornyhead.....	3,323,591	399,755	141,241	11,598	\$1,698,511	\$1,291,339	3,381,153	3,381,153
Tuna, albacore.....	\$761,580	884,477	\$30,487	\$2,690	-	-	1,142,897	1,142,897
Tuna, bigeye.....	5,003,683	4,963,666	3,464,392	2,185,663	2,086,492	2,880,425	20,584,321	20,584,321
Tuna, bigeye.....	\$4,439,551	\$4,320,386	\$3,025,181	\$1,910,446	\$1,891,508	\$2,191,511	\$18,159,972	\$18,159,972
Tuna, bigeye.....	-	-	-	163	1,383,028	1,191,545	7,396	7,396
Tuna, bigeye.....	-	-	-	\$204	\$838,387	\$701,935	\$1,540,526	\$1,540,526

TABLE 8—Cont'd.

TABLE 8 (continued). Value of Landings and Shipments of Commercial Fish Into California by Area, 1981

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Tuna, bigeye.....	-	-	-	163	1,303,028	1,131,545	3,274,716
Tuna, bluefin.....	-	-	-	\$204	\$838,387	\$701,935	\$1,540,526
Tuna, skipjack.....	-	-	-	11,434	1,622,146	279,168	1,912,748
Tuna, yellowfin.....	389	2,648	66,250	\$6,289	\$84,021	\$202,148	\$1,276,258
Tuna, miscellaneous....	\$233	\$1,397	\$39,930	-	\$6,669,586	60,776	\$1,131,522
-	-	-	-	-	\$36,676,602	\$30,720,314	\$67,396,916
Turbot.....	12,113	2,539	6,351	15,920	78,711	31,907	\$99,246,436
-	\$4,746	\$1,103	\$1,114	-	\$8,756	46,399	\$126,438
Wahoo.....	-	-	-	-	-	\$21,384	\$76,539
Yellowtail.....	-	415	1,051	180	\$31,132	6,052	33,776
Miscellaneous fish.....	156,467	\$150	9337	\$147	\$76,366	\$5,777	\$88,909
Crustacean.....	17,753	17,753	2,321	58,755	155,583	\$118,609	\$195,609
Crab, Dungeness.....	10,064,879	344,336	15,614	10,504	-	108	10,435,441
Crab, rock.....	\$8,842,416	\$448,635	\$14,627	\$11,421	-	\$66	\$9,317,165
Crab, spider.....	2,671	10,278	-	718,411	380,503	263,344	1,177,777
Crab, spider.....	\$1,323	\$4,025	-	\$543,618	\$295,832	\$186,306	\$1,031,109
Lobster, California.....	-	-	-	5,296	\$2,530	-	10,914
Lobster, spiny.....	-	-	-	117,788	184,980	176,094	478,863
Prawn, ridgeback.....	-	-	-	\$40,905	\$641,328	\$595,584	\$1,637,368
Prawn, spot.....	308	2,888	8,859	30,783	\$166,025	-	\$164,025
Shrimp, Pacific ocean..	\$924	\$8,074	\$38,337	\$75,040	6,997	741	370,536
Shrimp, miscellaneous..	3,038,483	15,717	551	1,106,082	\$15,142	\$1,783	\$815,760
Shrimp, miscellaneous..	\$1,518,622	20,70	\$363	\$592,979	3,662	-	4,149,495
Miscellaneous.....	-	2,448	1,484	9,584	7,324	-	\$2,127,158
Crustacean.....	-	\$1,274	\$7,310	\$9,057	7,062	62	20,620
Echinoderm: Sea urchin.....	209,289	22,713	-	19,221,364	4,658,963	2,320,987	26,433,986
Miscellaneous echinoderm....	\$44,320	\$6,378	-	\$3,842,179	\$857,960	\$286,652	\$5,037,489
Mollusk: Abalone, black.....	-	506	-	375,249	133,789	11,334	520,948
Abalone, green.....	225	\$953	-	\$497,211	\$201,385	14,654	8,337
Abalone, pink.....	-	\$224	715	-	2,496	45,553	14,961
-	-	12	10	874	\$129,844	\$37,351	63,950
-	-	\$32	\$25	45,492	\$44,121	14,262	\$174,796
-	-	-	-	\$109,119	\$85,991	\$31,736	94,127
-	-	-	-	-	-	-	112
-	-	-	-	-	-	-	\$90

TABLE 8. Value of Landings and Shipments of Commercial Fish Into California by Area, 1981

Abalone, red.....	-	54,705	736	304,680	3,319	66,875	430,315
Abalone, white.....	-	\$128,548	\$1,658	\$720,922	\$8,136	\$149,920	\$1,009,184
Abalone, miscellaneous.....	-	-	-	1	17	33	37
Abalone, miscellaneous.....	-	-	-	855	80	8435	8550
Clam.....	-	-	-	106	-	34	140
Clam.....	1,436	-	-	274	-	249	523
Mussel.....	\$1,031	-	-	8	-	-	1,444
Mussel.....	-	647	320	5,548	693	-	1,039
Octopus.....	-	832	320	\$2,163	\$106	-	7,205
Oyster, European flat..	52,267	25,041	3,540	3,591	97	35	84,571
Oyster, European flat..	\$26,006	\$12,564	\$1,788	\$1,598	873	853	\$42,082
Oyster, giant Pacific..	-	11	10,850	-	-	-	12,291
Oyster, giant Pacific..	-	87,433	76,554	-	-	-	\$8,853
Oyster, giant Pacific..	580,928	419,164	-	49,600	-	-	1,049,652
Squid, market.....	4,959	16	28,269,009	5,268,659	18,277,519	9,556	51,829,718
Scallop, weathervane...	\$1,041	87	\$3,918,309	\$265,436	\$960,555	\$1,802	\$5,147,150
Miscellaneous mollusk..	-	1	75	1,744	-	-	1,898
Miscellaneous mollusk..	-	\$29	8475	\$3,431	-	-	\$3,935
Total pounds.....	74,558,753	41,231,234	56,418,504	76,088,560	382,567,349	159,481,580	790,345,980
Total value.....	\$33,719,202	\$20,818,686	\$11,586,339	\$16,751,364	\$114,664,292	\$89,066,641	\$286,606,524
<hr/>							
SHIPMENTS:							
Fish:							
Tuna, albacore.....	-	-	-	-	18,321,546	20,095,041	38,416,587
Tuna, bigeye.....	-	-	-	-	\$19,450,679	\$21,259,932	\$40,710,611
Tuna, blackfin.....	-	-	-	-	60,831	197	61,028
Tuna, bluefin.....	-	-	-	-	\$26,519	313	32,937
Tuna, bluefin.....	-	-	-	-	174,098	45,228	219,326
Tuna, skipjack.....	-	-	-	-	\$104,459	\$26,571	\$131,030
Tuna, skipjack, black..	-	-	-	-	-	4,140	4,104
Tuna, yellowfin.....	-	-	-	-	59,359,613	44,351,941	103,711,554
Tuna, miscellaneous.....	-	-	-	-	\$37,854,46	\$27,916,592	\$65,771,258
Total pounds.....	-	-	-	-	-	-	-
Total value.....	*****	*****	*****	*****	98,611,455	83,001,419	181,613,874
Grand total pounds..	74,558,753	41,231,234	56,418,504	76,088,560	\$83,093,683	\$61,575,046	\$134,668,729
Grand total value...	\$33,719,202	\$20,818,686	\$11,586,339	\$16,751,364	\$187,757,975	\$150,641,667	\$421,275,253

TABLE 8—Cont'd.

TABLE 9. Value of Landings and Shipments of Commercial Fish Into California by Area, 1982

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
Fish:							
Anchovy, northern.....	-	870,026	5,752,060	14,361,419	71,940,472	-	92,923,977
Barracuda, California..	-	\$106,302	\$136,183	\$349,646	\$1,540,196	-	\$2,132,317
Bass, giant sea.....	-	-	-	\$5,304	\$48,027	8,557	73,394
Bonito, Pacific.....	-	-	-	2,472	1,121	559	58,980
Bonito, Pacific.....	-	491	10,377	14,582	5,068,203	968,364	6,062,617
Butterfish, Pacific....	-	\$252	\$2,301	\$9,126	\$1,008,704	\$190,017	\$1,280,002
Cabroneta.....	-	1,047	18,441	5,559	12,444	1,96	45
Cabroneta.....	2,023	37,409	26,614	\$3,583	\$11,097	\$327	\$44,492
Cod, Pacific.....	\$246	877	31	18,873	5	15	62,214
Croaker, white.....	-	389,673	487,010	148,835	288,788	17,495	1,331,801
Flounder, arrowtooth...	-	\$103,706	\$122,060	\$62,384	\$90,842	\$10,915	\$389,907
Flounder, arrowtooth...	106,391	-	-	-	-	-	114
Flounder, starry.....	811,024	-	-	816	-	-	\$1,040
Flounder, starry.....	-	1,500	206	817	28	-	2,451
Flounder, miscellaneous	94,699	284,759	22,471	47,283	98	4	81,303
Flyingfish.....	\$28,461	\$89,239	\$9,182	\$16,548	856	\$6	\$139,492
Grenadier.....	98,383	-	-	-	153,246	-	153,246
Grouper.....	\$9,872	-	-	-	-	-	17
Hake, Pacific.....	-	-	-	3,620	6,414	-	98,383
Hake, Pacific.....	2,234,861	15,886	500	-	1,780	-	\$9,872
Halibut, California....	\$179,005	\$2,180	550	-	6	-	10,034
Herring, Pacific.....	1,049	4,049	39,442	546,338	163,197	40,001	1,177,775
Herring, Pacific.....	994	6527,665	553,694	\$951,429	\$276,138	\$71,667	\$1,881,497
Lingcod.....	111,425	22,714,495	551,583	246	-	-	23,377,749
Mackerel.....	1,294,408	949,516	409,874	360,776	19,233	3,116	1,036,923
Mackerel.....	\$36,676	\$239,641	885,876	887,049	\$9,941	\$1,674	\$760,657
Mullet, striped.....	12,013	9,878	5,144,920	11,668,997	105,854,292	64,323	122,756,423
Mullet, striped.....	\$1,046	\$1,765	\$356,984	\$1,106,070	\$9,696,726	\$1,216	\$11,257
Ophah.....	-	-	-	-	522	25,696	26,218
Opah.....	-	-	139	7,010	11,140	\$16,534	\$16,769
Ray, miscellaneous.....	11,160	79	-	-	1,167	10	12,416
Rockfish group, boccaccio/chili	1,332,883	2,490,547	3,383,834	2,844,273	528,931	24,396	10,604,964
Rockfish, widow.....	8,942,336	8528,178	\$667,185	\$587,318	\$178,875	\$9,910	\$2,238,093
Rockfish, miscellaneous	\$8,357,887	2,745,952	2,556,416	3,635,167	1,518,605	1,724,453	22,642,185
Rockfish, miscellaneous	8,357,594	\$1,655,157	\$700,552	\$662,882	\$1,510,449	\$885,900	20,538,187
							\$6,242,993

TABLE 9. Value of Landings and Shipments of Commercial Fish Into California by Area, 1982

MARINE FISH LANDINGS
1977-1986

3

Sablefish.....	10,932,983	2,507,747	2,108,190	88,702	5,005,203	113,338	20,996,253
	\$2,063,071	\$420,784	\$347,907	\$13,309	\$2,356,277	\$40,726	\$5,147,144
Salmon.....	3,841,351	2,830,544	1,044,747	241,823	43,121	272	8,001,858
	99,214,749	97,257,938	82,752,511	\$689,171	\$132,260	\$817	\$20,047,446
Sanddab Pacific.....	1,024,162	842,133	79,317	6,752	4,075	1,024	1,024,164
	\$114,880	\$229,394	\$25,240	\$1,603	\$600	\$3,948	\$375,665
Sardine, Pacific.....	-	-	86	-	3,924	-	4,010
	-	-	\$43	-	376	-	4419
Sculpin.....	-	875	-	371	39,630	21,388	6,244
	-	\$605	-	\$297	\$31,109	\$17,991	\$50,002
Seabass, white.....	-	44	387	27,000	21,642	21,642	70,795
	-	\$93	\$696	\$47,503	\$32,724	\$41,610	\$116,156
Shark, bigeye thresher.	-	2,547	-	247	3,162	30,313	36,269
	-	\$676	-	\$179	\$1,919	\$12,332	\$15,106
Shark, bonito.....	132	-	428	34,252	26,539	22,311	53,839
	838	-	8275	\$25,285	\$165,329	\$147,700	\$338,677
Shark, common thresher.	247	3,885	21,110	485,089	911,149	975,691	2,397,171
	\$185	\$2,133	\$16,255	\$44,199	\$752,699	\$796,685	\$1,982,673
Shark, Pacific angel..	-	675	-	113,596	1,664	1,025	1,960
	-	\$252	-	\$104,904	\$1,198	\$326	\$106,680
Shark, soupfin.....	11,199	8,002	2,123	67,294	43,072	53,164	250,504
	86,558	\$36,050	\$863	\$41,192	\$38,102	\$40,594	\$159,222
Shark, miscellaneous..	10,510	90,287	25,133	87,799	143,578	91,712	449,024
	\$4,199	\$39,105	\$9,133	\$56,372	\$90,704	\$52,347	\$251,860
Sheephead, California..	-	-	7	7	1,148	-	11,776
	-	-	\$2,480	\$1,624	\$528	-	4,432
Skate.....	159,570	47,174	60,682	18,822	1,560	-	287,808
	\$27,249	\$12,157	\$12,154	\$3,937	\$500	-	\$56,547
Smelt, top or jack....	50	9,722	1,737	400	75,13	94	1,770
	66	\$3,858	\$550	\$97	\$11,009	\$38	\$15,558
Smelt, true.....	210,468	22,215	9,387	-	30	-	262,540
	\$24,792	\$2,131	\$2,131	\$2,131	\$5	-	\$83,444
Smelt, whitebait.....	365,174	50,618	20,054	-	10	-	315,856
	\$94,890	\$14,735	\$6,639	\$6,639	\$3	-	\$116,267
Sole, Dover.....	16,196	3,196	1,249,453	240,885	-	-	22,086,490
	\$3,874,816	\$818,683	\$365,499	\$50,465	-	-	\$569,343
Sole, English.....	1,336,679	1,189,147	369,347	325,328	-	970	3,221,471
	\$817,594	\$391,328	\$108,139	\$16,020	-	\$320	\$1,043,401
Sole, petrale.....	661,311	49,232	25,650	37,650	844	1,235	1,235
	\$395,086	\$257,432	\$145,252	\$223,851	\$568	\$192	\$1,022,381
Sole, rex.....	905,122	353,036	46,342	161,609	8	295	1,466,411
	\$829,739	\$126,177	\$16,217	\$22,806	\$5	\$106	\$516,344
Sole, sand.....	114,328	207,619	619	5,269	-	-	8,835
	\$59,017	\$106,273	-	-	-	-	\$167,498
Sole, miscellaneous....	3,731	12,722	1,125	4,273	1,585	142	59,852
	\$8,381	\$10,868	\$1510	\$1,590	\$838	\$431	\$57,610
Surferch.....	86,464	39,950	3,098	58,698	121,672	57,822	367,704
	\$60,690	\$44,346	\$741	\$56,343	\$21,582	\$27,736	\$211,438
Swordfish.....	-	87	87	200	135	135	728,145
	-	\$161	\$26,737	\$633,530	\$2,329,554	\$2,130,947	\$5,120,929
Thornyhead.....	3,610,193	551,977	275,275	19,252	994	-	4,457,691
	\$828,123	\$181,210	\$81,210	\$6,728	\$517	-	\$1,016,087
Tuna, albacore.....	1,029,628	532,323	446,040	31,820	4,801,07	2,320,791	9,398,588
	\$648,210	\$374,473	\$286,796	\$228,084	\$3,236,857	\$1,613,132	\$6,387,552
Tuna, bigeye.....	-	141	-	97	607,785	1,525,625	2,133,648
	-	\$99	-	\$121	\$327,259	\$837,274	\$1,164,753

TABLE 9—Cont'd.

TABLE 9 (continued). Value of Landings and Shipments of Commercial Fish Into California by Area, 1982

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Tuna, bluefin.....	339	-	-	56	5,026,169	274,693	5,301,256
Tuna, skipjack.....	-	-	-	\$11	\$2,547,093	\$141,482	\$2,688,886
Tuna, yellowfin.....	143	74	813	1,520	55,235,745	37,146,094	92,381,839
Tuna, miscellaneous....	\$67	\$93	2750	\$1,309	\$23,821,594	\$16,326,194	\$40,147,788
Tuna, miscellaneous....	90	10	116	590	\$37,715,110	\$36,142,317	134,855,299
Turbot.....	35,137	3140	149	9,156	44,122	66,980	111,908
Turbot.....	\$5,139	\$943	\$73	\$2,262	-	-	\$8,419
Mahoo.....	-	-	-	-	1,223	8,920	10,143
Yellowtail.....	-	17,430	12,526	432	35,498	14,223	75,109
Miscellaneous fish....	\$4,404	\$4,049	\$177	\$10,842	\$10,238	\$29,710	
Miscellaneous fish....	506,670	14,593	8,118	57,207	151,341	12,545	750,842
Miscellaneous fish....	\$48,938	\$5,484	\$2,421	\$26,523	\$66,092	\$6,511	\$149,869
Crustacean:							
Crab, Dungeness.....	6,463,716	500,181	2,642	6,304	-	-	6,473,679
Crab, Dungeness.....	\$6,993,571	\$663,331	\$4,070	\$5,442	\$809	-	\$7,493,223
Crab, rock.....	8,058	15,733	16	837,593	219,412	197,060	1,277,872
Crab, rock.....	\$8,054	\$8,395	88	\$664,986	\$177,447	\$156,147	\$1,015,557
Crab, spider.....	-	-	-	\$1,521	21,244	-	\$7,495
Crab, spider.....	-	-	-	\$3,869	84,077	-	\$7,496
Lobster, California.....	-	-	-	130,177	193,512	201,021	524,710
Prawn, spiny.....	-	-	-	497,822	\$685,769	8725,610	\$1,889,201
Prawn, ridgeback.....	-	-	-	129,002	129,002	-	\$157,931
Prawn, spot.....	60	1,439	19,645	277,975	3,124	25	302,268
Prawn, spot.....	\$390	\$7,907	\$94,032	\$798,157	\$67,743	\$75	\$4,324
Shrimp, Pacific ocean..	4,021,630	2,408	393	519,361	14	-	4,543,806
Shrimp, miscellaneous....	\$2,057,801	\$3,215	\$160	\$296,463	828	-	\$2,357,667
Shrimp, miscellaneous....	-	73	497	382	83	-	\$1,035
Miscellaneous.....	-	-	73	\$2,336	-	\$1,288	\$3,77
Miscellaneous.....	-	-	-	250	816	-	1,066
Echinoderms, crustacean....	-	-	-	\$500	\$1,055	-	\$1,555
Echinoderms:							
Sea cucumber.....	-	-	-	135,097	4,390	-	139,487
Sea urchin	-	-	-	\$23,617	\$1,367	-	224,984
Sea urchin	56,577	12,042	1,236	13,416,559	3,252,603	2,275,434	19,231,513
Sea urchin	\$9,389	\$3,384	\$323	\$2,524,639	\$574,621	\$420,297	\$3,332,853
Miscellaneous.....	-	-	30	70,734	32,577	100	103,441
Mollusks; echinoderm....	-	-	\$30	\$10,946	\$4,079	\$50	\$15,105
Mollusks:							
Abalone, black.....	-	125	-	454,166	167,324	11,692	633,307
Abalone, green.....	409	12	\$175	\$576,328	\$233,396	\$16,110	\$826,009
Abalone, green.....	-	-	-	\$7,77	12,120	11	\$20,945
Abalone, pink.....	-	-	-	\$7,595	\$231,624	\$46,059	\$285,278
Abalone, pink.....	-	-	-	43,136	24,171	18,871	86,178
Abalone, pink.....	-	-	-	\$107,555	\$69,972	\$48,405	\$225,932

TABLE 9. Value of Landings and Shipments of Commercial Fish Into California by Area, 1982

MARINE FISH LANDINGS 1977-1986

35

Abalone, red.....	-	66,364	-	320,189	4,862	39,270	431,285
Abalone, white.....	-	\$121,789	-	\$724,140	\$10,403	\$86,144	\$974,406
Abalone, miscellaneous.	-	-	-	62	180	66	209
	-	210	-	\$186	\$630	\$1,832	\$2,648
	-	\$706	-	\$132	-	-	57
Clam.....	546	-	49	150	142	-	\$238
	9441	-	\$44	\$106	213	-	887
Mussel.....	-	1,913	885	1,578	2,994	17	7,387
Octopus.....	-	81,194	6508	\$854	\$1,519	99	\$4,084
	38,152	31,998	10,233	7,212	805	124	117
	\$20,145	\$17,099	\$7,539	\$3,199	\$1,349	\$115	\$49,446
Oyster, eastern.....	-	53	-	\$1,349	-	\$115	53
	-	\$394	-	-	-	-	\$394
Oyster, European flat..	-	3,805	-	-	-	-	3,805
	-	\$19,750	-	-	-	-	\$19,750
Oyster, giant Pacific..	492,299	495,745	-	118,250	-	-	1,106,204
	\$521,735	\$1,017,355	-	\$131,175	-	-	\$1,576,445
Scallop, weathervane..	5,530	-	-	-	-	-	5,530
	\$2,007	-	-	-	-	-	\$2,007
Snail, sea.....	-	852	1,517	7,131	19,521	1,023	23,444
	-	8463	\$1,517	\$1,794	\$5,457	\$355	\$9,586
Squid, market.....	4,307	5,149	23,384,951	3,094,712	9,463,966	180	35,953,265
	8978	852	\$2,082,959	\$149,750	\$50,005	822	\$3,614,218
Miscellaneous mollusk..	-	432	55	85	8,144	2	8,118
	-	\$137	\$125	\$85	\$40,252	\$7	\$40,606
Total pounds.....	74,412,782	57,352,337	50,020,298	56,983,034	343,260,285	114,845,790	696,874,526
Total value.....	\$31,750,688	\$26,120,502	\$9,617,852	\$14,178,784	\$90,278,321	\$61,327,459	\$233,273,606
SHIPMENTS:							
Fish:							
Tuna, albacore.....	-	-	-	-	20,883,045	2,445,842	23,328,887
	-	-	-	-	\$22,950,77	\$2,449,142	\$25,413,131
Tuna, bigeye.....	-	-	-	-	45,122	208	87,330
	-	-	-	-	\$34,246	\$28,279	\$62,525
Tuna, blackfin.....	-	-	-	-	169,824	69,238	239,062
	-	-	-	-	\$10,170	\$39,912	\$14,72
Tuna, bluefin.....	-	-	-	-	213,408	-	213,408
	-	-	-	-	\$122,711	-	\$122,711
Tuna, skipjack.....	-	-	-	-	88,576,18	15,419,444	103,422
	-	-	-	-	\$41,020,779	\$6,662,606	\$47,683,385
Tuna, skipjack, black..	-	-	-	-	26,587	-	26,587
	-	-	-	-	\$2,620	-	\$2,620
Tuna, yellowfin.....	-	-	-	-	17,334,443	3,574,346	20,759
	-	-	-	-	\$10,090,410	\$1,992,669	\$12,083,079
Tuna, miscellaneous....	-	-	-	-	1,106,138	-	1,106,138
	-	-	-	-	\$381,404	-	\$381,404
Total pounds.....	-	-	-	-	128,339,145	21,551,078	149,890,223
Total value.....	*****	*****	*****	*****	\$74,709,257	\$8,173,270	\$85,359,551
Grand total pounds..	74,412,782	57,352,337	50,020,298	56,983,034	471,599,430	136,396,868	846,764,749
Grand total value...	\$31,750,688	\$26,120,502	\$9,617,852	\$14,178,784	\$164,987,578	\$72,500,729	\$319,156,161

TABLE 9—Cont'd.

TABLE 10. Value of Landings and Shipments of Commercial Fish Into California by Area, 1983

Species LANDINGS:	Eureka	Pan-cisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Fish:							
Anchoy, northern.....	-	732,501	707,134	6,061,296	2,054,482	3,787	9,759,200
Barracuda, California..	-	875,416	844,279	\$161,147	\$130,330	\$687	\$411,513
Bass, giant sea.....	-	70	141	1,478	16,669	2,898	21,256
Bass, giant sea.....	-	957	97	\$1,221	\$14,168	\$1,841	\$17,458
Bonito, Pacific.....	-	2	18	1,166	1,446	130	3,740
Bonito, Pacific.....	873	75,160	814	\$2,015	\$1,522	\$898	8,449
Butterfish, Pacific...	\$306	825,492	821,708	\$1,729	\$1,124,772	65,179	8,154,181
Cabezon.....	-	4,439	1,278	43,082	5,173	\$14,756	\$1,486,777
Cabezon.....	1,440	84,358	83,179	\$28,664	\$5,436	830	\$41,667
Croaker, white.....	\$136	85,455	87,272	2,372	562	11	20,515
Croaker, white.....	50	316,723	79,545	162,754	217,147	6,934	783,153
Flounder, arrowtooth...	\$20	80,444	819,267	\$53,084	\$67,366	\$3,474	\$216,056
Flounder, arrowtooth...	52,299	2,106	-	-	-	-	440
Flounder, starry.....	\$5,330	8745	-	-	-	-	86,075
Flounder, starry.....	39,322	62,150	1,270	4,011	-	-	104,066
Flounder, miscellaneous	\$11,040	819,411	873	81,474	-	-	\$32,398
Flyingfish.....	44,821	314,450	18,696	33,399	485	2,399	18,250
Grenadier.....	\$13,458	894,592	\$6,662	\$12,117	\$459	\$743	\$128,031
Grouper.....	-	-	-	-	38,893	-	38,893
Hake, Pacific.....	168,280	-	1,090	-	-	-	\$1,448
Hake, Pacific.....	\$15,302	-	\$109	-	-	-	169,370
Hake, Pacific.....	-	-	-	128	41,987	198	819,411
Hake, Pacific.....	2,151,347	6,603	-	\$53	\$12,054	\$190	\$12,297
Halibut, California...	\$161,309	8551	-	17	934	3	2,160,904
Halibut, California...	385	551,806	22,510	372,584	131,331	51,965	1,130,581
Herring, Pacific.....	\$70	875,043	815,741	\$667,350	\$235,550	\$93,564	\$1,767,818
Herring, Pacific.....	69,461	17,731	380,466	-	17	15	17,600
Herring, Pacific.....	845,070	812,457,247	\$144,365	82	84	-	\$12,646,668
Lingcod.....	960,842	603,141	304,283	101,994	4,229	2,301	1,976,790
Mackerel.....	\$245,223	818,594	870,663	\$26,194	\$1,994	\$1,339	1,297,527
Mackerel.....	6,453	32,281	13,021,1204	10,285,981	89,709,119	41,385	113,096,423
Mullet, striped.....	\$805	83,320	\$793,684	\$827,284	\$8,126,009	\$10,079	\$9,761,181
Opah.....	-	-	-	-	-	45,134	43,134
Opah.....	-	2,509	24,881	41,371	33,081	-	826,148
Ray, miscellaneous....	8,970	5,524	86,806	\$13,700	\$9,219	\$22,580	85,554
Ray, miscellaneous....	-	5,503	1	\$14	\$9,197	-	\$14,633
Rockfish group.....	458,706	4,936,235	1,840,060	1,836,530	728,837	40,484	9,841,652
Buccaccio/chili	\$104,104	\$1,118,118	\$393,770	\$448,770	\$211,660	\$14,777	\$2,220,320
Rockfish group, red....	1,267,489	398,703	155,079	339,674	18,618	24,149	2,203,712
	1,303,869	\$104,585	875,280	\$226,930	\$13,977	\$14,479	873,120

TABLE 10. Value of Landings and Shipments of Commercial Fish Into California by Area, 1983

Rockfish group.....	215,373	329,465	362,776	134,996	24,319	327	1,077,155
<i>rockfish</i>	\$41,087	862,488	\$69,398	827,112	\$8,197	\$164	1,056
<i>widow</i>	5,616,311	2,216,288	59,536	42,364	-	-	7,634,619
Rockfish, <i>miscellaneous</i>	8,326,320	2,859,390	4,077,007	2,233,055	668,742	1,615,620	81,493,118
Sablefish.....	\$1,741,315	\$783,560	\$1,041,723	\$924,336	\$404,063	\$802,956	\$5,697,953
Salmon.....	1,128,486	1,089,595	1,083,547	1,021,234	174,268	5,429,596	2,672
<i>salmon</i>	\$1,159,637	1,083,547	1,021,234	1,021,234	\$1,074,058	\$912	14,613,392
Sardine, <i>Pacific</i>	1,234,624	\$1,234,624	\$1,234,592	\$1,241,302	\$379,578	\$1,132	83,478,165
Sardine, <i>Pacific</i>	884,482	\$103,131	\$13,606	5335	2284	81,587	865,939
Sardine, <i>Pacific</i>	-	-	\$13,606	5335	2284	81,587	865,939
Sculpin.....	-	-	\$13	81	\$161	-	1,384
Seabass, white.....	40	1,272	1,122	1,089	360	24,489	8175
Shark, <i>bigsye thresher</i>	\$10	\$2,369	\$1,150	\$1,150	\$1,150	\$16,920	\$4,852
Shark, bonito.....	-	15,540	39,061	15,223	39,061	24,813	77,964
Shark, common thresher.....	59	87,368	\$24,350	\$10,156	\$10,329	\$41,322	\$24,230
Shark, <i>Pacific angel</i>	-	783	783	783	783	28,188	26,547
Shark, <i>soupfin</i>	13,778	54,224	44,772	24,350	24,350	\$17,759	12,609
Shark, <i>miscellaneous</i>	\$10,240	\$31,424	\$44,772	\$27,755	\$12,087	\$11,712	\$117,990
Sheepshead, California.....	6,724	134,574	28,076	104,390	74,139	85,507	433,410
Sheepshead, California.....	\$4,335	\$96,416	\$15,495	\$95,989	\$45,222	\$11,146	80,855
Skate.....	69,963	49,911	50,098	50,098	50,098	849,157	91,594,323
Smelt, <i>top or jack</i>	1,676	3,509	1,878	2,109	78,617	75	87,864
Smelt, true.....	8134	81,509	86,896	85,495	\$12,817	850	85,495
Smelt, whitebait.....	161,916	16,323	18,799	5,000	8849	-	87,861
Sole, Dover.....	12,002,684	3,655,042	2,442,797	784,444	28,919	-	202,088
Sole, English.....	\$2,669,303	\$827,702	\$492,492	\$162,976	\$7,231	-	18,913,890
Sole, petrale.....	573,515	560,993	529,122	568,346	842,339	8112	\$4,159,704
Sole, rex.....	\$388,064	\$237,417	\$120,243	\$110,738	\$4,862	880	880
Sole, sand.....	78,244	155,258	3,437	1,448	-	472	238,497
Sole, <i>miscellaneous</i>	10,274	84,706	82,552	82,552	82,552	8283	10,112
Surperch.....	62,518	56,547	18,177	1,048	3,017	852	33,930
Swordfish.....	\$41,339	866,166	\$1,248	\$38,724	\$10,109	\$10,296	\$12,590
Swordfish.....	-	55,646	484,079	443,263	915,202	777,028	2,675,218
		\$118,707	\$1,083,850	\$1,161,787	\$2,405,698	\$2,037,436	\$6,807,479

TABLE 10—Cont'd.

TABLE 10 (continued). Value of Landings and Shipments of Commercial Fish Into California by Area, 1983

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Thornyhead.....	2,595,973	457,570	467,594	203,915	7,061	-	3,732,113
	\$600,144	\$104,797	\$105,496	\$56,164	\$1,712	-	\$868,313
Tuna, albacore.....	1,415,813	3,138,502	4,086,587	2,107,515	\$5,332,853	464,140	16,545,410
	\$769,138	\$1,762,907	\$2,275,767	\$1,197,515	\$3,110,601	\$322,410	\$9,639,416
Tuna, bigeye.....	-	-	-	3,943	5,942	5,578	13,130
Tuna, bluefin.....	5	58	33	1,229	\$4,326	\$37,359	\$45,611
	\$6	\$25	58	1,229	\$4,326	63,137	1,682,296
Tuna, skipjack.....	-	3,193	6,806	10,703	60,627,133	38,548,960	99,196,795
	-	\$895	\$1,860	\$4,133	\$2,936,143	\$13,792,052	\$36,735,083
Tuna, yellowfin.....	169	97	16,452	16,452	\$1,184,111	40,510,766	122,369,366
	\$153	\$458	\$4,958	\$14,754	\$40,431,346	\$18,757,648	\$59,203,117
Tuna, miscellaneous.....	-	11,331	1,415	13,305	145,685	53,041	224,777
	-	\$6,113	\$1,942	\$11,188	\$61,456	\$36,746	\$16,542
Turbot.....	36,592	86,109	12,115	9,118	72	-	116,803
	87,353	\$2,177	871	8966	\$210	-	\$10,777
Wahoo.....	-	-	-	-	12,998	5,323	18,321
	-	-	-	-	\$7,152	9,275	16,377
Yellowtail.....	647	190	10,427	2,302	34,464	123,926	171,956
	\$344	\$66	\$3,083	\$2,213	\$24,062	\$60,743	\$90,511
Miscellaneous fish.....	184,356	28,602	36,785	68,598	222,638	6,988	547,946
	184,356	\$8,795	\$8,795	\$66,776	\$57,749	\$3,736	\$108,641
Crustacean:							
Crab, Dungeness.....	4,651,079	615,817	5,274	19,559	9	50	5,161,653
	\$7,071,104	\$1,039,104	\$5,274	\$14,029	\$11	\$91	\$8,115,508
Crab, rock.....	4,544	28,989	883	835,901	284,583	242,209	1,397,109
	\$3,236	\$17,864	\$651	\$702,195	\$235,737	\$190,338	\$1,150,021
Crab, spider.....	-	-	-	13,933	13,933	70	10,103
Lobster, California.....	-	-	-	13,974	\$5,898	\$43	\$19,915
Lobster, spiny.....	-	-	-	138,213	182,046	204,628	525,087
Prawn, ringback.....	-	-	-	85,114	\$703,264	\$758,372	\$1,151,222
Prawn, spot.....	14	3,199	7,613	142,573	-	-	153,779
	674	\$8,621	\$37,886	\$37,197	-	-	\$142,573
Shrimp, Pacific ocean.....	212,452	33	920,257	-	-	-	109,495
	\$147,337	-	126	\$735,167	-	-	1,380
Shrimp, miscellaneous.....	-	1,856	4	10,644	49	-	1,132,742
	-	\$2,166	\$23,887	\$54,885	\$701	-	\$882,159
Miscellaneous crustacean.....	-	10	-	1,012	738	103	1,863
	-	-	-	\$1,364	\$348	\$1,002	\$2,714
Echinoderm:							
Sea cucumber.....	-	-	-	149,071	14,424	-	163,495
	-	-	-	\$2,294	\$4,009	-	156,104
Sea urchin.....	13,247	41,744	2,195	12,601,747	3,179,309	1,918,230	17,756,472
	\$150	\$11,079	\$8648	\$2,652,293	\$689,928	\$477,849	\$3,831,947
Miscellaneous echinoderm.....	-	-	1	-	34,563	-	34,564
	-	-	\$1	-	\$2,714	-	\$5,715

TABLE 10. Value of Landings and Shipments of Commercial Fish Into California by Area, 1983

MARINE FISH LANDINGS 1977-1986

39

Mollusk: [*]									
Abalone, black.....	- 19	- 357,341	- 117,252	- 9,698	- 484,110	-	-	-	-
Abalone, green.....	- \$150	- \$47,156	- \$16,955	- \$12,374	- \$6,445	-	-	-	-
Abalone, pink.....	- -	- 2,346	- 45,080	- 12,335	- 56,861	-	-	-	-
Abalone, red.....	- -	- 66,987	- \$155,203	- 25,618	- \$187,808	-	-	-	-
Abalone, white.....	- 39,448	- 29,426	- 23,146	- 18,440	- 67,152	-	-	-	-
	- \$220,831	- \$79,928	- \$71,661	- \$44,598	- \$67,157	-	-	-	-
	-	- 165,211	- 5,828	- 20,723	- 231,210	-	-	-	-
	-	- \$403,711	- 16,562	- 856,056	- \$657,166	-	-	-	-
Abalone, white.....	- -	- 111	- 15	- 56	- 152	-	-	-	-
Abalone, miscellaneous..	- -	- 449	- \$465	- \$54	- \$1,468	-	-	-	-
	- -	- -	- 88	- -	- 21	- 102	-	-	-
Clam.....	- 13	- -	- 187	- -	- 34	- \$14	-	-	-
	- \$20	- -	- -	- -	- -	- 3,057	-	-	-
Clam.....	- 1,273	- 22	- 1,708	- 53	- -	-	-	-	-
Mussel.....	- -	- 471	- \$10	- \$985	- \$53	-	-	-	-
	- -	- 20	- 20	- 475	- 85	- 1,143	-	-	-
	- -	- 515	- \$12	- \$544	- \$238	- 34	-	-	-
Octopus.....	- 14,226	- 12,269	- 3,790	- 3,820	- 638	- 70	-	-	-
	- \$8,016	- \$8,016	- \$2,357	- \$1,908	- \$1,989	- 559	- \$20,894	-	-
Snail, sea.....	- -	- 2,263	- 175	- 8,033	- 25,136	- 37	- 31	-	-
	- -	- -	- -	- -	- -	-	-	-	-
Squid, market.....	- 62	- 1,018,092	- 1,102,328	- 14,674	- 1,882,529	- 2,668	- 4,020,353	-	-
	- \$33	- \$207,086	- \$224,364	- \$4,162	- \$329,594	- \$669	- \$76,410	-	-
Miscellaneous mollusk..	- -	- 664	- 1	- 50	- 2,654	- 70	- 1,439	-	-
	- -	- 664	- 4	- 180	- \$12,584	- 825	- \$13,684	-	-
Total pounds.....	- 51,133,384	- 44,129,798	- 32,486,076	- 43,502,658	- 264,393,437	- 86,320,862	- 521,966,215	-	-
Total value....	- \$19,583,994	- \$22,782,565	- \$8,860,378	- \$13,913,546	- \$85,775,757	- \$38,463,671	- \$189,379,911	-	-

* Beginning 1983. Oyster production is no longer reported in this data series.

TABLE 10—Cont'd.

TABLE 11. Value of Landings and Shipments of Commercial Fish Into California by Area, 1984

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
Fish:							
Anchovy, northern.....	1,000	1,185,437	4,177,162	422,279	582,742	-	6,368,620
	\$600	\$137,437	\$199,928	\$58,196	\$86,057	-	\$485,497
Barracuda, California..	-	-	5	5,798	18,266	4,601	38,460
Bass, giant sea.....	-	-	35	-	17,734	\$3,075	\$25,754
Bonito, Pacific.....	-	337	6,216	27,470	6,130,888	14,550	6,179,690
		\$246	\$1,429	\$6,862	\$820,840	\$6,103	\$835,480
Butterfish, Pacific....	-	950	2,162	4,364	6,381	12	12,999
		\$94	\$4,364	\$2,162	\$57,789	\$6,553	\$14,525
Cabezon.....	530	12,379	62	1,719	35	16	14,741
	\$100	\$2,784	\$21	\$313	\$15	\$6	\$1,141
Croaker, white.....	-	427,796	111,389	138,143	809,129	5,000	1,493,487
		\$127,914	\$35,422	\$52,871	\$87,778	\$3,341	\$307,326
Croaker, miscellaneous.	-	-	-	54,016	-	-	54,016
Flounder, arrowtooth...	67,524	3,885	-	-	\$30,887	-	39,393
	\$6,779	\$1,149	-	-	-	-	71,409
Flounder, starry.....	99,247	337,239	14,483	17,682	2	-	87,928
	\$30,143	\$1,039	\$4,773	\$4,720	86,705	91	107,575
Flounder, miscellaneous	381	32,004	35,594	36,684	93	3	105,155
	\$27	\$11,129	\$14,445	\$14,135	974	\$1	\$39,811
Flyingfish.....	-	-	-	19,250	-	-	19,250
Grenadier.....	68,736	204	13,713	-	-	-	82,653
	\$6,881	\$20	\$1,391	-	-	-	82,653
Hake, Pacific.....	5,141,113	5,233	8,445	-	-	23	5,147,312
	\$338,618	\$465	8845	-	-	\$1	\$333,929
Halibut, California....	207	307,389	37,574	487,802	174,286	100,074	1,141,332
	\$19,986	\$4,627	\$70,446	\$896,694	\$331,570	\$185,148	\$1,194,821
Herring, Pacific.....	147,274	8,125,448	209,317	35	-	-	8,482,074
	\$55,456	\$1,847,595	\$20,239	\$9	-	-	\$1,926,293
Lingcod.....	682,965	1,201,392	11,311	46,220	5,180	1,047	1,219,423
	\$153,248	\$317,461	\$30,363	\$13,751	\$2,432	\$880	\$548,735
Louvar.....	-	1,023	6,220	7,073	1,852	1,841	18,009
		\$816	\$839	\$5,937	\$7,322	\$351	\$33,338
Mackerel.....	219	35,728	27,843,596	3,125,516	86,293,331	60,409	117,355,049
	\$45	\$5,667	\$1,439,760	\$254,356	\$7,900,034	\$13,388	\$9,613,248
Mullet, striped.....	-	-	-	-	-	-	19,495
						\$17,499	\$17,499
Ophah.....	-	13,154	31,629	116,634	177,697	177,012	516,126
		\$3,127	\$7,533	\$31,196	\$38,918	\$51,170	\$131,344
Ray, miscellaneous....	-	-	71	27	1,195	-	1,195
				\$70	\$20,154	-	\$20,224
Rockfish group.....	116,731	3,587,644	1,363,672	1,341,076	603,801	183,712	7,196,636
bocaccio/chilli	\$26,018	\$663,818	\$859,571	\$366,341	\$220,019	\$85,524	\$1,191,831
Rockfish group, red...	2,126,509	6,416	180,102	41,084	254,937	70,709	3,834,897
	\$521,169	\$202,565	\$94,708	\$318,671	\$207,475	\$47,258	\$1,389,846

TABLE 11. Value of Landings and Shipments of Commercial Fish Into California by Area, 1984

Rockfish, widow.....	4,315,005	1,444,812	95,704	65,598	1,877	5,429	6,928,425
Rockfish, miscellaneous	4,885,320	7,404,501	3,907,480	1,408,294	476,414	6,276	8,112,849
Sablefish.....	\$1,164,129	\$1,883,081	\$1,029,481	\$574,684	\$357,315	1,261,311	1,187,000
Salmon.....	5,012,750	1,536,983	1,210,786	302,912	2,054,902	2,002	10,533,321
Salmon.....	399,428	1,102,262	1,010,747	845,774	\$717,699	529	8,335,559
Salmon.....	803,778	1,684,711	445,629	47,303	-	635	2,082,606
Sanddab, Pacific.....	62,104,775	\$4,554,267	\$1,257,268	\$157,710	-	1,786	\$8,125,803
Sardine, Pacific.....	28,016,949	2,011,201	1,716	1,624	361	16,477	5,029,598
Sardine, Pacific.....	\$101,608	\$72,804	\$14,993	\$1,762	\$313	\$17,757	\$209,437
Scallop.....	-	-	719	-	1,112	767	2,598
Sculpin.....	-	10	827	362	\$2,265	8263	8874
Seabass, white.....	-	\$1	-	\$185	\$20,450	61,754	822,390
Shark, bigeye thresher.....	-	507	235	55,117	42,729	19,411	118,099
Shark, bonito.....	-	\$1,249	648	\$104,755	\$81,390	83,076	922,752
Shark, common thresher.....	-	4,063	6,471	6,729	31,940	25,203	74,406
Shark, Pacific angel.....	-	32	70,684	83,934	\$4,280	\$19,615	\$17,047
Sheepshead, California.....	\$30	87,000	86,896	84,280	\$46,530	86,966	86,438
Skate.....	4,314	1,411,218	869,328	\$56,689	\$499,117	435,523	1,059,104
Skate.....	-	81,843	8213	\$223,343	\$4,215	\$2,997	\$232,611
Skate.....	5,448	3,211,101	9,397	66,193	52,839	112,256	278,541
Skate.....	\$5,572	\$1,101,572	\$1,451	\$40,150	\$40,150	\$10,000	\$2,232,253
Skate.....	3,004	117,150	40,623	53,940	40,006	59,528	114,251
Skate.....	\$2,244	\$52,786	\$28,855	\$36,032	\$33,632	\$82,843	\$236,395
Smelt, true.....	-	545	545	545	1,117	5,749	1,038,098
Smelt, top or jack.....	-	83,882	-	\$3,575	\$11,318	\$4,867	\$24,422
Smelt, whitebait.....	20,318	53,639	30,090	10,040	1,346	860	116,293
Sole, Dover.....	\$5,183	\$11,572	\$6,448	\$2,425	\$623	\$409	\$28,661
Sole, English.....	3,473	1,869	1,359	1,448	47,523	-	81,981
Sole, petrale.....	676,383	374,528	180,204	106,146	1,463	1,498	1,131,712
Sole, rex.....	8465,051	\$256,127	\$91,878	\$80,137	\$1,969	\$1,348	\$896,510
Sole, sand.....	8279,232	\$116,580	\$11,703	\$1,703	\$5,059	272	1,252,976
Sole, sand.....	23,723	116,264	7,790	1,030	18	895	844,525
Sole, miscellaneous.....	10,242	86,722	82,713	8425	-	-	142,825
Surfperch.....	82,314	843,408	\$7,981	7,982	706	514	883,608
Swordfish.....	24,596	42,008	5,677	19,569	4,724	8356	164,985
Swordfish.....	-	375,172	255,172	766,601	\$1,522,887	\$22,548	182,120
							\$146,473
							\$11,599,544

TABLE 11—Cont'd.

TABLE 11 (continued). Value of Landings and Shipments of Commercial Fish Into California by Area, 1984

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Thornyhead.....	3,991,371	131,869	369,446	664,888	12,696	-	4,570,370
-	\$1,012	\$130,673	\$86,322	\$100,112	\$1,175	\$1,160,597	
Tuna, albacore.....	999,230	1,619,676	1,315,216	710,438	18,991,581	2,490,606	26,126,747
-	\$521,882	\$665,827	\$667,452	\$377,241	\$12,164,061	\$1,619,692	\$16,216,155
Tuna, bigeye.....	-	-	120	46	4	1,521	1,521
-	-	-	\$120	\$474	\$154,061	\$21,534	\$175,689
Tuna, bluefin.....	-	1,097	504	1,894	1,377,096	20,407	1,400,998
-	-	-	\$548	\$385	\$2,211	\$896,278	\$1,399,214
Tuna, skipjack.....	-	147	110	3,030	48,394,969	20,415,598	68,895,983
-	-	-	\$51	\$37	\$18,297,545	\$6,510,764	\$24,809,758
Tuna, yellowfin.....	506	-	-	7,192	61,440,224	15,851,264	77,289,186
-	\$177	-	-	\$6,458	\$39,444	\$6,078,193	\$7,557
Tuna, miscellaneous....	-	481	666	600	2,229,539	5,280	2,236,472
-	-	\$465	\$485	\$379	\$3,594,743	\$5,519	\$3,601,591
Turbot.....	16,721	3,211	2,411	650	20	-	1,050
-	\$5,010	\$740	\$638	\$172	\$59	-	\$6,619
Yellowtail.....	-	32,281	20,133	4,609	42,237	32,505	132,165
-	-	\$6,667	\$5,015	\$3,895	\$35,972	\$22,479	\$4,919
Miscellaneous fish....	134,679	58,020	19,598	5,153	53,376	29,516	143,943
-	\$2,251	\$24,250	\$5,988	\$24,347	\$31,571	\$16,917	\$105,324
Crustacean:							
Crab, Dungeness.....	4,654,524	628,352	28,251	28,451	48	462	5,340,088
-	\$7,061,120	\$1,275,531	\$73,253	\$23,795	\$23	\$724	\$9,434,446
Crab, rock.....	21,375	40,141	14,100	689,505	776,375	132,802	1,676,296
-	\$26,657	\$931,980	\$13,787	\$572,730	\$627,733	\$105,557	\$1,766,666
Crab, spider.....	28	-	-	13,139	22,302	869	56,338
-	\$49	-	-	\$15,339	\$9,309	\$420	\$25,117
Lobster, California.....	-	263	-	1,422	150,122	148,545	148,545
-	-	\$1,122	-	\$5,781,268	\$40,145	\$989,242	\$1,788,047
Prawn, spiny.....	-	-	41	391,426	198,138	393	589,998
-	-	-	\$31	\$239,238	\$99,370	870	\$339,474
Prawn, ridgeback.....	-	-	2,400	400	79	137	464
Prawn, spot.....	-	-	\$11,505	\$219,622	\$439	\$132	\$231,698
-	-	-	\$10,657	215,424	51,979	-	1,628,992
Shrimp, Pacific ocean..	1,350,767	10,657	1,165	1,159	244,559	-	878,173
-	\$6,227,070	\$5,101	-	\$1,159	-	-	46,347
Shrimp, miscellaneous..	10,240	461	3,715	31,029	102	600	\$189,142
-	\$4,750	\$387	\$18,160	\$163,803	\$2042	-	2,022
Miscellaneous	648	1,137	47	47	307	840	1,026
Crustacean.....	\$154	\$490	\$34	\$171	\$268	\$1,333	\$2,490
Echinoderm:							
Sea cucumber.....	-	-	1	49,249	2,684	420	62,354
-	-	-	-	\$89,137	\$1,165	\$42	\$99,334
Sea urchin.....	54,310	9,760	170	11,456,101	2,700,517	758,011	14,978,869
-	\$15,518	\$3,023	\$130	\$2,758,495	\$663,020	\$196,161	\$3,636,347
Miscellaneous	117	-	8	-	77,941	30	78,096
echinoderm....	-	-	-	-	\$13,248	220	\$13,548

TABLE 11. Value of Landings and Shipments of Commercial Fish Into California by Area, 1984

Mollusk:							
Abalone, black.....	-	52	12	332,726	\$1,748	11,756	436,294
		\$250	\$98	\$640,485	\$182,777	\$22,526	\$846,096
Abalone, green.....	-	-	-	1,744	1,744	146	1,740
				\$6,014	\$100,903	\$19,538	\$126,455
Abalone, pink.....	-	-	-	28,594	20,118	8,318	57,030
				\$7,934	\$71,110	\$2,976	\$74,949
Abalone, red.....	-	52,957	866	232,978	5,266	17,652	239,759
		\$361,618	\$4,906	\$692,527	\$16,313	\$67,552	\$1,142,916
Abalone, white.....	-	71	-	132	62	184	137
		\$19	-	\$579	\$254	\$834	\$1,685
Abalone, miscellaneous.	-	73	-	1,163	-	-	1,236
		\$700	-	\$7,211	-	-	7,501
Clam.....	500	3,121	1,205	51	1,049	80	7,449
		\$32	\$735	\$242	\$928	\$1,305	\$3,242
Mussel.....	500	6,682	-	20	456	-	7,658
		\$635	122	-	\$1,228	-	\$1,204
Octopus.....	9,035	3,801	636	1,330	518	201	15,521
		\$5,935	\$2,248	\$8482	\$666	\$2,167	\$277
Snail, sea.....	-	24,559	1,900	5,498	18,420	1,577	52,244
		\$4,690	\$760	\$1,670	\$5,877	\$455	\$1,453
Squid, market.....	123	213,769	861,720	21,606	146,207	33	1,243,458
		\$85	\$54,951	\$203,327	\$10,007	\$56,132	\$25
Miscellaneous mollusk..	-	137	146	1,213	5,214	20	5,240
		\$170	\$140	\$13,538	\$41,045	\$200	\$55,093
Total pounds.....	50,730,865	38,023,024	46,229,305	28,619,517	243,403,929	43,842,359	450,848,939
Total value.....	\$19,844,222	\$16,701,764	\$7,360,136	\$13,382,991	\$90,720,777	\$20,316,160	\$168,326,050
SHIPMENTS:							
Fish:							
Tuna, albacore.....	-	-	-	-	14,942,404	2,175,736	17,118,140
					\$11,915,648	\$1,931,479	\$13,847,125
Tuna, bigeye.....	-	-	-	-	1,640	1,640	1,640
					\$920	-	\$920
Tuna, skipjack.....	-	-	-	-	17,081,810	4,279,670	21,361,480
					\$8,686,968	\$1,354,622	\$7,316,940
Tuna, yellowfin.....	-	-	-	-	1,492,864	-	1,492,864
					\$766,551	-	\$766,551
Tuna, miscellaneous....	-	-	-	-	5,472,657	-	5,472,657
					\$5,217,688	-	\$5,217,688
Total pounds.....	-	-	-	-	38,991,575	5,455,496	45,446,381
Total value.....	-	-	-	-	\$24,373,373	\$3,280,031	\$27,653,474
Grand total pounds..	50,730,865	38,023,024	46,229,305	28,619,517	282,395,504	50,297,765	456,295,980
Grand total value...	\$19,844,222	\$16,701,764	\$7,360,136	\$13,382,991	\$114,844,950	\$23,602,261	\$195,735,930

TABLE 11—Cont'd.

TABLE 12. Value of Landings and Shipments of Commercial Fish Into California by Area, 1985

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
Fish:							
Anchovy, northern.....	-	570,611	2,509,190	354,970	149,794	-	3,584,565
Barracuda, California..	-	\$65,340	\$150,062	\$47,143	\$16,734	-	\$97,779
Bass, giant sea.....	-	100	-	19,288	45,791	2,148	68,025
Bonito, Pacific.....	-	-	-	95	5,327	\$1,645	862,260
Butterfish, Pacific....	-	174	4,767	240,849	5,837,283	6,181	6,089,254
Cabezon.....	-	936	\$1,232	\$24,314	\$558,844	\$1,873	\$586,359
Croaker, white.....	-	2,438	2,892	2,056	3,06	39	9,959
Croaker.....	2,601	8,403	10,698	647	147	10	22,506
Croaker, white.....	8674	21,438	\$3,262	\$167	896	2	\$5,639
Croaker, white.....	7,642	4,642	40,026	348,736	225,090	6,056	1,231,532
Flounder, arrowtooth..	833	\$152,453	\$128,260	\$167,125	\$74,261	\$4,106	\$526,238
Flounder, starry.....	76,673	6,362	-	262	-	-	83,297
Grenadier.....	-	87,687	22,137	7,505	-	30	109,597
Hake, Pacific.....	111,152	24,173	21,887	7,505	-	30	383,597
Hake, Pacific.....	839,922	982,684	\$6,944	\$3,082	-	\$30	\$132,662
Hake, miscellaneous	2,051	101,819	47,415	21,285	31	9	139,599
Hake, Pacific.....	876	\$34,431	\$17,320	\$9,593	814	83	961,597
Flyingfish.....	-	-	30	763	52,392	-	53,185
Grenadier.....	-	-	615	\$496	\$23,071	-	13,922
Herring, Pacific.....	133,354	170	39	10	-	-	133,333
Herring, Pacific.....	813,347	\$17	\$440	\$1	-	-	\$13,405
Herring, Pacific.....	6,598,313	5,514	877	25	-	-	6,598,313
Herring, Pacific.....	839,451	450	8611	816	-	-	839,451
Halibut, California....	669	236,195	73,207	499,820	315,121	131,363	1,256,375
Halibut, California....	9984	\$387,198	\$132,718	\$809,554	\$609,737	\$246,491	\$2,286,682
Herring, Pacific.....	199,282	17,271,874	13,048	1,048	-	-	18,280,909
Lingcod.....	8147,848	\$5,016	852,97	\$1	-	-	86,030,512
Lingcod.....	678,888	728,263	69,234	35,637	13,984	5,563	1,531,569
Mackerel.....	\$203,186	\$206,030	\$21,796	\$13,333	\$8,737	\$3,448	1,130,729
Mackerel.....	-	32,133	6,400,370	8,397,153	83,430,298	41,443	98,430,315
Mullet, striped	-	86,734	\$384,396	\$606,299	\$6,814,221	\$16,725	\$7,830,375
Opah.....	-	-	-	-	-	30,272	30,272
Opah.....	-	4,992	22,841	114,039	100,135	152,866	394,873
Opah.....	-	\$1,328	\$5,983	\$31,668	\$22,764	\$50,628	\$112,371
Ray, miscellaneous....	-	19	25	-	25	29	46
Rockfish group, bocaccio/chili	42,921	1,710,204	2,215,839	1,309,431	800,468	150,454	6,229,317
Rockfish group, red....	\$10,770	\$484,423	\$638,865	\$497,855	\$328,461	\$74,514	\$2,474,988
Rockfish group, red....	82,439	6,344	12,66	41,104	31,104	1,338	2,474,018
Rockfish group, rosefish	8221,622	241,861	\$57,881	\$419,226	\$289,207	\$66,271	\$1,298,068
Rockfish group, widow.....	560,150	477,616	306,050	249,668	285	208	1,233,377
Rockfish group, widow.....	129,725	\$111,619	\$85,250	\$56,133	971	\$104	354,081
Rockfish group, widow.....	4,139,861	1,070,30	257,56	133	624	-	6,524,827
Rockfish, widow.....	\$1,139,861	\$420,419	\$80,738	87	\$300	-	\$1,641,405

TABLE 12. Value of Landings and Shipments of Commercial Fish Into California by Area, 1985

MARINE FISH LANDINGS 1977-1986

45

Rockfish, miscellaneous	5,069,259	5,796,450	2,133,443	1,025,245	435,558	1,546,432	16,006,287
Sablefish.....	6,655,234	2,588,815	1,063,032	917,521	72,309	8,884	85,368,302
Salmon.....	2,008,285	2,531,997	410,661	71,633	-	11,305,795	11,305,795
Salmon.....	2,480,761	\$5,568,957	\$1,128,478	\$217,889	-	\$5,194	\$2,821,444
Sanddab, Pacific.....	490,712	318,749	114,726	18,197	2,918	26,115	971,417
Sardine, Pacific.....	\$176,976	\$115,442	\$41,448	\$5,755	\$2,298	\$26,855	\$8,333
Sardine, Pacific.....	-	-	\$538	625	7,503	-	12,876
Sculpin.....	-	179	-	666	8814	-	\$1,415
Seabass, white.....	-	118	16	1,507	61,912	40,694	21,251
Shark, bigeye thresher.....	-	-	-	\$123,114	\$78,286	\$41,225	\$242,489
Shark, bonito.....	-	\$448	\$15,224	\$10,429	\$29,536	\$40,301	\$85,938
Shark, common thresher.....	-	1,885	6,254	44,441	93,135	80,980	226,695
Shark, Pacific angel.....	2,632	65,769	99,175	515,627	387,507	470,089	1,540,799
Shark, Pacific angel.....	\$3,158	\$80,401	\$112,266	\$616,416	\$437,393	\$561,931	\$1,811,565
Shark, soupfin.....	6,441	42,644	19,272	76,851	41,319	91,213	277,740
Shark, miscellaneous.....	\$5,357	\$32,309	\$8,896	\$52,306	\$38,243	\$75,020	\$212,131
Sheepshead, California.....	\$6,909	\$78,174	\$31,871	\$15,880	\$23,470	\$26,995	\$183,299
Skate.....	-	-	19,264	7,026	2,210	28,500	-
Skate.....	98,936	53,963	27,703	9,949	4,135	8,960	19,339
Smelt, top or jack.....	\$24,797	\$113,559	\$5,956	\$2,607	\$1,618	\$370	\$48,907
Smelt, true.....	911	5,258	1,007	211	1,962	50	8,363
Smelt, true.....	356,253	1,656	432	855	\$50	\$23	872,124
Smelt, whitebait.....	\$58,989	42,358	4,290	82	285	-	373,268
Sole, Dover.....	\$179,343	88,079	\$1,148	\$910	\$90	-	\$64,263
Sole, Dover.....	15,343,782	3,357,024	1,620,183	6,176,466	1,938	-	26,499,393
Sole, English.....	1,130,267	8,1843	285,468	\$1,142	\$485	-	\$6,359,483
Sole, petrale.....	916,585	429,007	227,578	313,589	1,325	310	2,341,422
Sole, rex.....	1,103,837	837,298	154,277	621,159	\$1,350	\$416	879,334
Sole, sand.....	\$398,497	318,125	120,509	435,405	1,368	-	1,979,244
Sole, sand.....	1,121,171	1,177	147	2,311	310	-	5708,084
Sole, sand.....	\$49,183	\$122,758	87,141	\$174	-	-	1,179,256
Sole, miscellaneous.....	57,330	62,213	16,343	25,474	3,444	4,607	169,411
Surfperch.....	41,479	57,444	84,035	81,035	8,246	85,111	10,031
Surfperch.....	44,405	38,117	7,976	12,038	5,952	14,590	122,078
Swordfish.....	\$28,871	\$44,365	\$2,760	\$21,215	\$7,718	\$8,540	\$104,469
Thornthead.....	4,345,169	461,779	312,880	1,360,034	\$4,996,826	\$2,719,758	\$1,196,685
Tuna, albacore.....	\$1,098,260	\$116,125	\$74,016	\$327,583	-	5,795	6,485,657
Tuna, albacore.....	2,797,597	932,635	1,867,318	865,616	\$6,892,376	1,071,060	14,197,002
Tuna, albacore.....	\$1,287,503	\$96,988	\$800,831	\$410,991	\$3,083,369	\$567,475	\$7,407,427

TABLE 12—Cont'd.

TABLE 12 (continued). Value of Landings and Shipments of Commercial Fish Into California by Area, 1985

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Tuna, bigeye.....	440	-	866	598	1,540	11,180	14,624
	\$194		\$734	\$487	\$1,037	\$15,084	\$17,536
Tuna, bluefin.....	-	81	133	4,035	7,160,455	8,595	7,173,299
		\$58	\$104	\$2,957	\$2,914,933	\$10,039	\$2,453,151
Tuna, skipjack.....	-	-	-	-	5,554,700	1,500	5,562,190
					\$1,920,065	\$2,373	\$1,922,438
Tuna, yellowfin.....	5	1,243	671	6,089	33,067,222	48,089	33,123,115
	2	\$1,046	\$693	\$5,256	\$14,272,727	\$42,393	\$14,272,727
Tuna, miscellaneous.....	432	620	215	2,848	1,032,630	247	1,036,992
	\$270	\$351	\$172	\$2,252	\$886,444	\$227	\$889,716
Turbot.....	21,233	572	1,010	1,101	1	14	172
	\$6,516	\$1,285	\$421	\$654	\$1	87	\$8,884
Yellowtail.....	-	26,887	138	34,682	46,058	151,994	259,759
		\$8,839	\$443	\$25,792	\$25,857	\$15,505	\$169,036
Miscellaneous fish.....	198,606	201	12,299	37,149	20,143	13,440	13,437
	\$2,233	\$8,965	\$7,247	\$27,043	\$17,373	\$16,268	\$79,129
Crustacean:							
Crab, Dungeness.....	5,696,776	595,941	12,258	14,389	200	809	6,210,472
	\$7,684,471	\$1,195,708	\$29,661	\$16,995	\$326	\$638	\$8,927,399
Crab, rock.....	18,662	48,690	1,437	684,376	867,002	119,668	1,739,835
	\$26,507	\$41,605	\$2,159	\$884,078	\$775,290	\$11,454	\$1,537,189
Lobster, California.....	-	18	12,041	12,041	13,198	186,324	186,324
			\$544	-	\$585,470	\$839,492	\$1,944,480
Shrimp, ridgeback.....	-	-	808,673	87,799	344	896,816	896,816
Prawn, spot.....	-	10	9,450	46,132	166	8,183	63,941
			\$51	\$52,555	\$246,943	\$316	\$30,195
Shrimp, Pacific ocean.....	3,343,853	-	1,391	-	-	-	3,343,853
	\$1,186,697			\$8,06	\$20,211	-	\$1,187,314
Shrimp, miscellaneous.....	819	789	308	8,633	26	-	10,375
	\$328	\$2,257	\$1,611	\$39,000	\$1,726	-	\$44,324
Miscellaneous crustacean.....	-	48	1,117	20,948	18,242	3,129	24,134
				\$4,890	\$10,924	\$8,021	\$1,653
Echinoderms:							
Sea urchin.....	1,919,346	3,868	550	14,614,852	2,825,138	634,437	19,998,191
	\$309,669	\$928	\$200	\$3,651,158	\$707,146	\$168,392	\$4,837,693
Miscellaneous echinoderm.....	-	-	-	56,998	15,499	230	72,727
				\$11,051	\$3,972	\$92	\$15,115
Mollusk:							
Abalone, black.....	-	37	-	260,426	96,783	2,589	359,835
		\$86		\$549,638	\$230,936	\$6,563	\$787,223
Abalone, green.....	-	93	2,170	21,175	745	1,552	2,170
		\$417		\$8,414	\$91,405	\$2,527	\$102,763
Abalone, pink.....	-	17	-	42,349	21,807	4,450	68,623
		\$83		\$7,720	\$83,741	\$1,426	\$86,640
Abalone, red.....	-	90,855	-	248,556	7,14	21,857	368,787
		\$315,603		\$839,928	\$25,124	\$91,196	\$1,271,851
Abalone, white.....	-	-	-	10	1,644	-	1,654
				\$60	\$9,664	-	\$9,724

TABLE 12. Value of Landings and Shipments of Commercial Fish Into California by Area, 1985

MARINE FISH LANDINGS 1977-1986

Abalone, miscellaneous.	1,015	-	6	-	1	1,022
Clam.....	\$3,554	-	\$31	-	-	\$3,585
Clam.....	5,648	-	44,081	581	-	50,310
Mussel.....	\$2,294	-	\$29,956	\$416	-	\$32,426
Mussel.....	66	1,709	-	59	605	151
Octopus.....	\$66	\$8,320	-	\$30	\$121	\$8,537
Octopus.....	12,520	1,026	138	547	46	15,260
Snail, sea.....	\$8,790	860	997	\$543	\$2,239	\$8,794
Squid, market.....	-	114	-	7,594	26,314	78
Squid, market.....	40	169,668	8,403,327	\$3,371	\$12,620	\$983
Miscellaneous mollusk..	\$12	\$28,308	\$1,820,394	\$840,236	\$1,071,737	\$144
Total pounds.....	66,128,202	43,102,484	29,597,427	51,559,308	160,201,279	6,371,348
Total value.....	\$27,482,780	\$20,766,834	\$7,881,333	\$20,371,967	\$43,085,482	\$7,194,815
SHIPMENTS:						
Fish:						
Tuna, albacore.....	-	-	-	-	6,194,007	6,194,007
Tuna, skipjack.....	-	-	-	-	\$4,011,223	\$4,011,223
Tuna, miscellaneous.....	-	-	-	-	980,968	980,968
Total pounds.....	-	-	-	-	\$291,011	\$291,011
Total value.....	-	-	-	-	2,877,055	2,877,055
Grand total pounds..	66,128,202	43,102,484	29,597,427	51,559,308	170,253,309	6,371,348
Grand total value... Grand total value...	\$27,482,780	\$20,766,834	\$7,881,333	\$20,371,967	\$48,999,803	\$7,194,815
						\$132,697,532

TABLE 12—Cont'd.

TABLE 13. Value of Landings and Shipments of Commercial Fish Into California by Area, 1986

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
Fish							
Anchovy, northern.....	-	865,641	1,781,819	382,523	354,796	-	3,384,779
Barracuda, California..	-	\$91,839	\$122,894	\$45,051	\$35,051	-	\$295,859
Bass, giant sea.....	-	-	-	1,739	50,190	4,024	56,143
Bonito, Pacific.....	-	-	-	41	6,049	4,039	12,953
Bonito, Pacific.....	-	700	556	12,152	53,935	8,959	70,790
Butterfish, Pacific....	-	6385	8460	\$4,630	\$73,103	\$4,556	883,134
Cabezon.....	761	12,159	87,454	4,131	3,154	104	44,570
Croaker, white.....	817	491,513	272,707	229,150	250,146	984	1,245,117
Dolphinfish.....	8204	\$170,061	\$90,041	\$112,614	\$109,313	820	\$480,233
Flounder, arrowtooth..	40,927	410	-	116	-	8756	41,552
Flounder, starry.....	67,833	6121	-	821	-	-	34,466
Flounder, miscellaneous	25,402	161,738	40,015	6,524	-	-	276,110
Grenadier.....	14	39,771	59,070	23,909	1,739	26	82,195
Hake, Pacific.....	85	\$15,145	\$26,609	\$10,531	\$934	\$30	\$53,254
Herring, Pacific.....	-	-	-	-	62,132	-	62,132
Herring, Pacific.....	135,990	208	-	153	\$30,394	-	136,351
Guitarfish, shovelnose.	\$13,915	\$27	-	816	-	-	\$13,958
Hake, Pacific.....	-	-	71	9,944	2,924	631	13,600
Halfmoon.....	34,486	-	821	\$3,710	\$1,947	6299	85,777
Halibut, California....	1,065	202,773	68,916	600,635	221,456	85,241	1,184,090
Halibut, Pacific.....	81,275	\$377,187	\$136,968	\$1,206,039	\$463,827	\$179,730	\$2,740,130
Herring, Pacific.....	19,000	16,382,068	310,357	173	-	-	34,486
Herring, Pacific.....	8120,015	\$5,298,403	\$26,053	661	-	-	59,219
Lingcod.....	591,625	400,345	107,810	41,855	8,859	3,326	1,153,820
Mackerel.....	8205,047	\$139,551	\$39,207	\$17,862	\$5,793	\$2,060	\$409,566
Mullet, striped.....	820	85,478	8298,366	\$836,014	\$7,439,992	\$6,228	\$8,586,098
Ophah.....	95	7,639	11,196	29,060	67,009	2,000	25,187
Ray, miscellaneous....	-	\$2,716	\$3,259	\$9,138	\$16,091	103,770	218,669
	-	-	-	523	866	-	1,389
	-	-	-	\$314	\$10,024	-	\$10,338

TABLE 13. Value of Landings and Shipments of Commercial Fish Into California by Area, 1986

MARINE FISH LANDINGS 1977-1986

49

Rockfish, blackgill....	-	635	-	43,637	193,243	47,118	384,633
Rockfish group, bocaccio /chilli	9,821	1,790,023	2,394,333	1,540,826	848,434	183,054	6,766,491
Rockfish group, red...	2,280	85,4230	97,930	85,4230	85,4230	85,4230	85,4230
Rockfish group, rockfish....	\$215,903	406,556	172,878	392,780	162,015	73,215	2,087,933
Rockfish group, widow.....	290,755	351,167	465,197	247,051	834,456	850,577	\$1,319,340
Rockfish, miscellaneus	3,695,428	1,318,457	247,829	650	2,600	1,627	1,314,509
Sablefish.....	\$1,022,618	8372,928	879,101	2,704,320	228	\$1,820	5,266,591
Sablefish, miscellaneus	3,931,724	1,585,132	890,698	\$1,196,801	\$214,113	923,309	\$5,814,773
Sablefish.....	7,690,200	3,368,169	1,271,945	637,312	613,749	4,561	13,585,936
Salmon.....	\$2,505,147	\$1,007,777	818,509	\$1,007,777	\$299,640	\$2,716	849,966
Salmon.....	2,229,829	5,611,917	2,319,559	\$1,966,549	733	-	7,604,146
Sardine, Pacific.....	323,306	554,690	80,856	4,349	1,128	16,968	\$15,128,587
Sardine, Pacific.....	\$119,637	\$204,539	94,179	81,111	\$1,655	\$17,782	8372,283
Sardine, Pacific.....	-	-	186,179	38,510	631,754	-	856,444
Scallop.....	-	204	-	\$3,005	860,443	-	881,603
Sculpin.....	-	360	-	8582	812,852	81,936	815,730
Seabass, white.....	-	249	1,628	69,473	27,035	8,286	106,671
Shark, bigeye thresher.	-	472	82,705	\$1,000,72	816,750	8215,410	8215,410
Shark, bonito.....	-	1,895	8,017	20,050	816,780	816,780	816,780
Shark, common thresher.	41	4,900	81,694	89,385	826,088	830,470	867,637
Shark, leopard.....	4,716	24,127	52,756	38,067	182,474	243,559	473,684
Shark, pacific angel...	5,207	835,292	\$72,635	191,904	190,687	142,405	606,595
Shark, pacific angel...	881	25,188	7,655	1,625	820,522	820,753	886,258
Shark, pacific angel...	\$1,472	813,277	910,233	\$11,447	18,745	18,745	811,293
Shark, scoufin.....	13,527	81,082	81,178	3,004	1,187,770	33,201	14,801
Shark, scoufin.....	\$14,842	816,894	85,958	838,534	\$40,300	860,348	8176,876
Shark, miscellaneus	1,665	94,297	21,414	44,096	27,913	11,816	201,201
Sheepshead, California..	\$1,351	\$44,862	\$11,605	82,322	82,322	82,322	810,195
Skate.....	-	-	-	17,128	10,001	2,123	29,252
Skate.....	65,642	42,465	32,831	5,385	89,530	81,443	817,943
Skate.....	\$16,684	\$11,604	97,599	812,659	\$1,394	831	838,181
Smelt, top or jack....	1,147	813	1,218	69	1,655	-	4,902
Smelt, true.....	195,333	842,540	842,540	830	8689	-	81,673
Smelt, whitebait....	403,587	17,762	7,334	819	-	-	89,634
Sole, Dover.....	1,035,675	8,293,175	1,514,917	2,578,108	-	-	428,683
Sole, Dover.....	\$3,663,994	\$1,603,498	\$307,869	\$629,818	-	-	811,942
Sole, English.....	1,057,063	877,364	338,759	111,476	1,237	-	2,436,419
Sole, petrale.....	552,192	395,187	166,277	484,616	1,225	903	86205,179
Sole, rex.....	\$404,858	\$302,522	\$120,375	\$438,648	\$1,239	\$1,131	81,268,773
Sole, rex.....	1,039,926	408,144	154,805	252,944	810	-	1,036,179
	\$384,661	\$151,753	855,762	899,418	\$114	-	\$692,08

TABLE 13—Cont'd.

TABLE 13 (continued). Value of Landings and Shipments of Commercial Fish Into California by Area, 1986

Species	Eureka	San Francisco	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Sole, sand.....	56,233	287,355	8,212	2,550	-	16	354,366
Sole, sand.....	\$37,1216	\$188,870	\$5,015	\$912	-	\$16	\$232,029
Sole, miscellaneous....	31,875	52,327	15,718	33,700	6,169	3,902	143,691
Surfperch.....	\$8,562	\$2,543	\$4,427	\$1,550	\$3,394	\$3,351	14,447
Surfperch.....	35,001	38,258	2,949	22,338	14,422	12,015	124,583
Swordfish.....	\$28,309	\$28,319	\$1,424	\$23,429	\$10,477	\$7,615	899,573
Swordfish.....	2,559	2,515	2,514	2,514	1,240	1,240	3,932
Swordfish.....	\$3,018	\$664,492	\$811,048	\$2,876,383	\$4,358,113	\$4,126,722	\$1,839,776
Thornyhead.....	4,885,358	614,126	307,163	686,428	1,485	-	6,494,560
Thornyhead.....	\$11,717,170	\$171,868	\$1,259	\$817,392	\$1,143	-	\$12,248,736
Tuna, albacore.....	4,497,177	58,258	1,998,119	954,528	2,928,837	191,324	7,248,773
Tuna, albacore.....	\$814,606	\$326,009	\$569,343	\$494,930	\$1,592,403	\$112,123	\$3,909,414
Tuna, bigeye.....	-	-	550	1,335	11,084	39,747	63,316
Tuna, bigeye.....	-	-	865	929	814,144	4,089	4,100
Tuna, bluefin.....	-	-	180	1,045	10,421,802	8,017	10,431,044
Tuna, skipjack.....	9	-	8180	\$1,086	\$8,094,712	\$10,659	\$8,106,637
Tuna, skipjack.....	45	-	8176	-	\$550,080	851,094	860,155
Tuna, yellowfin.....	-	192	405	2,847	47,151,000	281,729	47,436,173
Tuna, miscellaneous....	-	\$84	2,620	\$2,455	\$41,571,460	\$157,310	\$41,731,829
Tuna, miscellaneous....	-	\$1,060	93	1,453	38,433	437	39,556
Tuna, miscellaneous....	-	\$658	7712	\$1,344	\$186,978	\$9,539	\$198,231
Turbot.....	14,989	2,621	235	2,002	-	-	19,847
Turbot.....	\$4,584	\$15	\$76	\$72	-	-	19,007
Yellowtail.....	-	7,756	180	12,353	21,358	16,099	57,746
Miscellaneous fish.....	-	\$2,994	951	\$10,647	\$12,645	\$15,681	\$42,058
Miscellaneous fish.....	116,774	10,488	48,955	13,348	21,276	5,852	216,693
Miscellaneous fish.....	83,189	66,249	\$19,962	\$10,413	\$28,079	\$6,618	\$74,510
Crustacean:							
Crab, Dungeness.....	6,541,988	1,206,504	625	6,589	2,576	-	7,758,277
Crab, Dungeness.....	\$8,300,326	\$2,330,913	\$831	\$6,712	\$1,265	-	\$10,330,139
Crab, rock.....	16,646	57,482	2,284	735,442	1,041,373	234,181	2,097,408
Crab, rock.....	\$24,345	\$88,819	\$2,075	\$654,941	\$949,460	\$234,699	\$1,954,139
Lobster, California.....	-	-	153	12,922	14,399	2,770	19,404
Lobster, California.....	-	-	-	838	875,014	\$923,763	\$2,227,467
Prawn, spiny.....	-	-	-	545,081	122,983	2,509	670,573
Prawn, ridgeback.....	-	-	-	472,344	\$16,546	\$2,705	\$991,595
Prawn, spot.....	-	391	7,850	4,399	18,847	4,159	33,860
Prawn, spot.....	-	\$1,594	\$40,531	\$216,362	\$180,885	\$17,333	\$457,305
Shrimp, Pacific ocean.....	1,475	-	869,093	806	-	-	6,757,818
Shrimp, Pacific ocean.....	\$5,141,523	\$4,323	\$47,442	\$18,168	-	-	\$5,718,260
Shrimp, miscellaneous.....	2,784	14,529	2,614	3,701	1,575	3,365	28,568
Shrimp, miscellaneous.....	\$1,252	\$38,351	\$15,170	\$9,717	\$8,333	\$11,596	885,019
Miscellaneous crustacean....	639	2,249	299	39,510	35,395	5,207	83,299
Miscellaneous crustacean....	\$867	\$4,340	\$113	\$22,711	\$16,340	\$2,772	\$45,503
Echinoderm:							
Sea cucumber.....	-	-	-	75,050	2,867	20	77,967
Sea urchin.....	7,503,173	2,671,198	-	18,253,614	5,105,523	600,517	34,134,025
Sea urchin.....	\$1,807,165	\$599,207	-	\$5,652,179	\$1,455,879	\$185,549	\$9,699,397

TABLE 13. Value of Landings and Shipments of Commercial Fish Into California by Area, 1986

MARINE FISH LANDINGS 1977-1986

Miscellaneous echinoderm...	-	7	-	40	5,209	-	5,256
Mollusks:			\$10	\$52	\$1,229	-	\$1,231
Abalone, black.....	5,920	-	996	185,925	74,391	220	267,523
Abalone, green.....	\$1,567	-	\$2,390	\$432,308	\$172,371	\$474	\$609,710
Abalone, pink.....	-	-	-	2,292	21,799	1,659	25,750
Abalone, red.....	-	54	-	10,593	895,176	\$8,259	\$118,622
Abalone, white.....	-	\$312	-	95,326	\$109,046	\$13,657	\$218,341
Abalone, miscellaneous.	-	\$279,116	635	177,751	13,109	8,454	263,302
Clam.....	71	-	110	623	891,156	\$32,968	\$1,006,295
Octopus.....	10,985	919	-	981	4,08	64	117
Squid, market.....	821	1,834,016	12,098,653	15,063,011	17,912,085	\$64	\$15,229
Miscellaneous mollusk..	\$212	\$214,639	\$1,326,292	\$1,498,982	\$1,842,115	\$11	\$4,882,251
Total pounds.....	70,480,119	49,765,456	32,279,670	63,343,876	194,520,731	5,990,459	416,390,311
Total value.....	\$31,962,880	\$23,681,823	\$8,965,407	\$23,453,182	\$72,547,813	\$7,942,420	\$165,553,504
SHIPMENTS:							
Fish:							
Tuna, albacore.....	-	-	-	-	3,496,916	-	3,496,916
Tuna, skipjack.....	-	-	-	-	\$1,874,414	-	\$1,874,414
Total pounds.....	-	-	-	-	5,370,330	-	5,370,330
Total value.....	-	-	-	-	\$501,602	-	\$501,602
Total pounds.....	-	-	-	-	-	-	-
Total value.....	-	-	-	-	-	-	-
Grand total pounds..	70,480,119	49,765,456	32,279,670	63,343,876	200,715,873	5,990,459	422,585,453
Grand total value...\$31,962,880	\$23,681,823	\$8,965,407	\$23,453,182	\$72,547,813	\$7,942,420	\$165,553,504	\$170,529,520

TABLE 13—Cont'd.

TABLE 14. Statewide Catch by Species of Commercial Passenger Fishing Vessels (Not including anchored barges)
1977-1986

Species	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Barracuda, California.....	48,701	73,174	69,434	27,909	69,926	73,135	81,989	87,414	75,448	88,118
Bass, kelp and sand.....	398,089	476,982	462,980	585,432	739,562	587,349	463,270	359,913	572,620	700,602
Bonito, Pacific.....	161,962	315,643	538,467	560,508	654,051	218,478	348,050	377,678	120,139	340,480
Cod, Pacific.....	5,460	8,887	5,469	6,208	5,830	5,247	3,758	1,759	1,760	4,386
Hallibut, California.....	5,982	3,479	6,329	6,317	11,440	11,804	5,682	3,209	7,990	7,848
Lingcod.....	46,521	53,869	73,826	89,359	65,604	49,791	30,543	23,797	20,603	25,585
Mackerel, Jack.....	8,789	5,237	2,701	7,166	6,998	4,100	5,743	12,424	6,742	10,909
Mackerel, Pacific.....	484,722	940,204	1,272,038	1,315,971	1,007,198	914,238	630,003	684,324	659,708	605,716
Rockfish.....	3,216,071	2,955,435	3,713,670	3,315,952	3,315,718	3,089,655	2,346,270	2,015,791	2,043,129	1,802,017
Salmon.....	36,157	45,646	69,904	64,500	65,629	102,576	55,560	71,491	108,343	88,679
Sculpin.....	73,214	44,114	64,226	95,615	73,362	67,339	50,834	46,538	66,762	72,675
Sebastodes, white.....	24,242	18,124	18,100	18,887	18,899	1,003	973	1,045	1,634	1,634
Sheepshead, California.....	28,512	34,409	31,995	31,368	46,578	37,513	68,742	38,532	37,532	37,532
Tuna, albacore.....	70,274	92,646	10,196	21,309	26,648	36,690	17,161	211,285	172,493	27,322
Tuna, bluefin.....	1,838	479	1,087	729	542	665	1,912	2,834	4,960	693
Whitefish, ocean.....	61,058	38,006	36,957	28,810	24,378	22,608	22,095	64,241	84,441	73,919
Yellowtail.....	34,141	38,528	71,483	44,246	88,911	37,308	178,688	96,016	45,509	42,005
All others.....	184,365	115,250	196,279	213,191	115,387	110,221	313,898	153,347	86,887	152,345
Total number of fish.....	4,869,472	5,256,351	6,630,658	6,407,784	6,314,534	5,370,645	4,624,996	4,172,393	4,149,696	4,075,121
Total number of anglers.....	716,536	732,460	786,347	761,958	830,653	773,473	691,792	701,737	711,787	660,294

TABLE 14. Statewide Catch by Species of Commercial Passenger Fishing Vessels (Not including anchored barges)
1977-1986