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et al.

Publication Date
1990
FIGURE 1. Geographical areas used to summarize California fisheries statistics.

FIGURE 1. Geographical areas used to summarize California fisheries statistics
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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 $65,880 $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 445,098,644 (replaces 450,848,999).
Grand total pounds under Los Angeles Area should be 276,643,149 (replaces 282,385,504).
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, canners, 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


<table>
<thead>
<tr>
<th>Common name</th>
<th>Scientific name</th>
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<td>Anchovy, northern</td>
<td>Engraulis mordax</td>
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<tr>
<td>Barracuda, California</td>
<td>Sphyraena argentea</td>
</tr>
<tr>
<td>Bass</td>
<td></td>
</tr>
<tr>
<td>Barred sand</td>
<td>Paralabrax nebulifer</td>
</tr>
<tr>
<td>Giant sea</td>
<td>Stereolepis gigas</td>
</tr>
<tr>
<td>Kelp</td>
<td>Paralabrax clathratus</td>
</tr>
<tr>
<td>Spotted sand</td>
<td>Paralabrax maculatofasciatus</td>
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<tr>
<td>Blacksmith</td>
<td>Chromis punctipinnis</td>
</tr>
<tr>
<td>Bonito, Pacific</td>
<td>Sarda chilensis</td>
</tr>
<tr>
<td>Butterfish, Pacific</td>
<td>Pepsinus similimus</td>
</tr>
<tr>
<td>Cabezon</td>
<td>Scorpaenichthys marmoratus</td>
</tr>
<tr>
<td>Croaker, white</td>
<td>Genyonemus lineatus</td>
</tr>
<tr>
<td>Dolphinfish</td>
<td>Coryphaena hippurus</td>
</tr>
<tr>
<td>Edie</td>
<td>Anarrhichthys ocellatus and</td>
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<tr>
<td>Flounder</td>
<td>Gymnotorhynchus mordax</td>
</tr>
<tr>
<td>Arrowtooth</td>
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<td>Starry</td>
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<td>Flyingfish</td>
<td>Cypselura californicus</td>
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<tr>
<td>Grenadier</td>
<td>Atheresthes pectoralis and</td>
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<tr>
<td>Grouper</td>
<td>Coryphaenoides acrolepis</td>
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<tr>
<td>Guitarfish, shovelnose</td>
<td>Rhinobatos productus</td>
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<tr>
<td>Hake, Pacific</td>
<td>Merluccius productus</td>
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<tr>
<td>Halfmoon</td>
<td>Mataluna californiens</td>
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<td>Halibut</td>
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</tr>
<tr>
<td>California</td>
<td>Paralichthys californicus</td>
</tr>
<tr>
<td>Pacific</td>
<td>Hippoglossus stenotopic</td>
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<tr>
<td>Herring, Pacific</td>
<td>Clupea pallas</td>
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<td>Lingcod</td>
<td>Ophiodon elongatus</td>
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<td>Louvar</td>
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<td>Mackerel</td>
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<tr>
<td>Jack</td>
<td>Trachurus symmetricus</td>
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<td>Pacific</td>
<td>Scomber japonicus</td>
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<tr>
<td>Mullet, striped</td>
<td>Mugil cephalus</td>
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<tr>
<td>Opah</td>
<td>Lamprologus guttatus</td>
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<td>Opaleye</td>
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<td>Queenfish</td>
<td>Seriphus politus</td>
</tr>
<tr>
<td>Rockfish</td>
<td></td>
</tr>
<tr>
<td>Blackgill</td>
<td>Sebastes melanostomus</td>
</tr>
<tr>
<td>Group, bocaccio/chilipepper</td>
<td>Sebastes paucispinis and</td>
</tr>
<tr>
<td>Group, red</td>
<td>Sebastes goodei</td>
</tr>
<tr>
<td>Group, red</td>
<td>Sebastes miniatus and other</td>
</tr>
<tr>
<td>&quot;Red&quot; species</td>
<td>&quot;Red&quot; species</td>
</tr>
<tr>
<td>Group, rosefish</td>
<td>Sebastes diploproa and</td>
</tr>
<tr>
<td></td>
<td>Sebastes aurora</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Common name</th>
<th>Scientific name</th>
</tr>
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<tbody>
<tr>
<td>Rockfish</td>
<td>Sebastes spp.</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>Sebastes entomelas</td>
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<tr>
<td>Widow</td>
<td>Anoplopoma limbria</td>
</tr>
<tr>
<td>Salmon</td>
<td>Oncorhynchus shawytsha</td>
</tr>
<tr>
<td>King</td>
<td>Oncorhynchus gorbuscha</td>
</tr>
<tr>
<td>Pink</td>
<td>Oncorhynchus kisutch</td>
</tr>
<tr>
<td>Silver</td>
<td>Oncorhynchus sardina</td>
</tr>
<tr>
<td>Sanddab. Pacific</td>
<td>Citharichthys sordidus</td>
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<tr>
<td>Sardine, Pacific.</td>
<td>Sardinops sagax caeruleus</td>
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<tr>
<td>Sculpin</td>
<td>Scopraena guttata</td>
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<tr>
<td>Seabass, white</td>
<td>Atractoscion nobilis</td>
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<tr>
<td>Shark</td>
<td>Alopias superciliosus</td>
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<tr>
<td>Bigeye thresher</td>
<td>Alopias vulpinus</td>
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<tr>
<td>Bonito</td>
<td>Iurus oxyrinchus</td>
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<tr>
<td>Common thresher</td>
<td>Alopias vulpinus</td>
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<td>Triakis semiplicata</td>
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<td>Miscellaneous</td>
<td>Cararcharididae, Lamnidae, and Squalidae</td>
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<td>Pacific angel</td>
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<td>Souffin</td>
<td>Galeorhinus zyopterus</td>
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<tr>
<td>Sheephead, California</td>
<td>Semicossus pulcher.</td>
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<tr>
<td>Skates and rays</td>
<td>Families Rhinobatidae, Rajidae, and Myliobatidae</td>
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<td>Smolt</td>
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<tr>
<td>Top or jack</td>
<td>Family Atherinidae</td>
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<td>True</td>
<td>Family Osmeridae</td>
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<td>Whitebait</td>
<td>Alosmerus elongatus</td>
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<tr>
<td>Sole</td>
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<tr>
<td>Butter</td>
<td>Isopsetta isolepis</td>
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<td>Dover</td>
<td>Microstomus pacificus</td>
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<tr>
<td>English</td>
<td>Parophrys vetulus</td>
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<tr>
<td>Perafta</td>
<td>Eossetta jordani</td>
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<tr>
<td>Rex</td>
<td>Glyptocephalus zachirus</td>
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<tr>
<td>Rock</td>
<td>Lepidopus et bieneata</td>
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<td>Sand</td>
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<td>Surfperch</td>
<td>Family Embiotocidae</td>
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<td>Swordfish</td>
<td>Xiphus gladius</td>
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<td>Thornyhead</td>
<td>Sebasoldius sp.</td>
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<tr>
<td>Tuna</td>
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<tr>
<td>Albacore</td>
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<tr>
<td>Bigeye</td>
<td>Thunnus obesus</td>
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<tr>
<td>Blackfin</td>
<td>Thunnus atlanticus</td>
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<tr>
<td>Bluefin</td>
<td>Thunnus thynnus</td>
</tr>
<tr>
<td>Skipjack</td>
<td>Katsuwironus pelamis</td>
</tr>
<tr>
<td>Skipjack, black</td>
<td>Euthynus lineatus</td>
</tr>
<tr>
<td>Yellowfin</td>
<td>Thunnus albacares</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Common name</th>
<th>Scientific name</th>
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<tbody>
<tr>
<td>Turbot</td>
<td>Pleuronichthys decurrens</td>
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<td>Cullin</td>
<td>Hypsopsetta guttulata</td>
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<tr>
<td>Diamond</td>
<td>Acanthocybium solandori</td>
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<tr>
<td>Hornfish</td>
<td>Pleuronichthys verticalls</td>
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<tr>
<td>Wahoo</td>
<td>Caulophaga princeps</td>
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<tr>
<td>Yellowtail</td>
<td>Seriola lalandi</td>
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<tr>
<td><strong>CRUSTACEANS</strong></td>
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<tr>
<td>Crab</td>
<td>Cancer magister</td>
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<tr>
<td>Dungeness</td>
<td>Paralithodes spp.</td>
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<tr>
<td>California king</td>
<td>Cancer spp.</td>
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<tr>
<td>Rock</td>
<td>Loxorhynchos spp.</td>
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<tr>
<td>Spider</td>
<td>Panulirus interruptus</td>
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<tr>
<td>Lobster, California spiny</td>
<td>Panulirus ingentis</td>
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<tr>
<td>Prawn</td>
<td>Sicyonia platyfera</td>
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<tr>
<td>Ridgeback</td>
<td>Crangon spp. and</td>
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<tr>
<td>Spot</td>
<td>Palademum macrodactylus</td>
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<tr>
<td>Shrimp</td>
<td>Pandalus jordani</td>
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<tr>
<td>Bay</td>
<td>Cass Holothuroidea</td>
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<td>Pacific ocean</td>
<td>Strongyllocentrotus spp.</td>
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<td><strong>ECHINODERMES</strong></td>
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<td>Sea cucumber</td>
<td>Mytilus spp.</td>
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<tr>
<td>Sea urchin</td>
<td>Octopus spp.</td>
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<tr>
<td><strong>MOLLUSKS</strong></td>
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<td>Abalone</td>
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<tr>
<td>Black</td>
<td>Haliotis fulgens</td>
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<tr>
<td>Green</td>
<td>Haliotis portunata</td>
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<td>Pink</td>
<td>Haliotis rufescens</td>
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<tr>
<td>Red</td>
<td>Haliotis assimilis</td>
</tr>
<tr>
<td>Threaded</td>
<td>Haliotis sorenseani</td>
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<tr>
<td>White</td>
<td>Miscellaneous marine bivalves</td>
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<tr>
<td>Clam</td>
<td>Mytilus spp.</td>
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<tr>
<td>Mussel</td>
<td>Octopus spp.</td>
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<td>Octopus</td>
<td>C. virginica</td>
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<td>Oyster</td>
<td>O. edulis</td>
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<tr>
<td>Eastern</td>
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<tr>
<td>Giant Pacific</td>
<td>Miscellaneous marine gastropods</td>
</tr>
<tr>
<td>European flat</td>
<td>Miscellaneous marine gastropods</td>
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<tr>
<td>Scallop, whathervane</td>
<td>Palinoptera caurinus</td>
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<tr>
<td>Snail, sea</td>
<td>Loligo opalescens</td>
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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

<table>
<thead>
<tr>
<th>Year</th>
<th>Thousands of pounds</th>
<th>Year</th>
<th>Thousands of pounds</th>
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<tr>
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<td>95,005</td>
<td>1951</td>
<td>904,114</td>
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<tr>
<td>1917</td>
<td>209,857</td>
<td>1952</td>
<td>894,996</td>
</tr>
<tr>
<td>1918</td>
<td>281,124</td>
<td>1953</td>
<td>618,919</td>
</tr>
<tr>
<td>1919</td>
<td>205,270</td>
<td>1954</td>
<td>713,040</td>
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<tr>
<td>1920</td>
<td>222,004</td>
<td>1955</td>
<td>710,713</td>
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<tr>
<td>1921</td>
<td>135,348</td>
<td>1956</td>
<td>772,651</td>
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<tr>
<td>1922</td>
<td>182,243</td>
<td>1957</td>
<td>729,530</td>
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<tr>
<td>1923</td>
<td>253,875</td>
<td>1958</td>
<td>632,919</td>
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<td>1924</td>
<td>340,446</td>
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<td>713,423</td>
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<td>437,502</td>
<td>1960</td>
<td>894,683</td>
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<td>394,964</td>
<td>1961</td>
<td>725,263</td>
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<td>1927</td>
<td>467,198</td>
<td>1962</td>
<td>863,107</td>
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<td>592,099</td>
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<td>1929</td>
<td>806,854</td>
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<td>591,031</td>
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<td>702,189</td>
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<td>544,480</td>
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<td>502,390</td>
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<td>591,503</td>
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<td>1932</td>
<td>556,139</td>
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<td>821,805</td>
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<td>567,214</td>
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<td>1,390,788</td>
<td>1969</td>
<td>672,793</td>
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<td>1935</td>
<td>1,448,017</td>
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<td>798,415</td>
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<td>1936</td>
<td>1,764,900</td>
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<td>687,995</td>
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<td>1937</td>
<td>1,362,984</td>
<td>1972</td>
<td>640,696</td>
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<td>1938</td>
<td>1,310,556</td>
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<td>1939</td>
<td>1,466,535</td>
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<td>938,118</td>
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<td>1940</td>
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<td>1941</td>
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<td>1942</td>
<td>1,773,414</td>
<td>1977</td>
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<td>1943</td>
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<td>918,035</td>
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<tr>
<td>1944</td>
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<td>849,554</td>
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<tr>
<td>1945</td>
<td>1,216,501</td>
<td>1980</td>
<td>1,010,527</td>
</tr>
<tr>
<td>1946</td>
<td>919,622</td>
<td>1981</td>
<td>971,959</td>
</tr>
<tr>
<td>1947</td>
<td>795,499</td>
<td>1982</td>
<td>848,765</td>
</tr>
<tr>
<td>1948</td>
<td>900,467</td>
<td>1983</td>
<td>649,692</td>
</tr>
<tr>
<td>1949</td>
<td>1,135,339</td>
<td>1984</td>
<td>496,296</td>
</tr>
<tr>
<td>1950</td>
<td>1,366,676</td>
<td>1985</td>
<td>367,012</td>
</tr>
<tr>
<td>1986</td>
<td>422,585</td>
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<td></td>
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</table>

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

<table>
<thead>
<tr>
<th>License year</th>
<th>Licensed commercial fishermen</th>
<th>Commercially registered fishing vessels</th>
</tr>
</thead>
<tbody>
<tr>
<td>1976-77</td>
<td>14,948</td>
<td>7,258</td>
</tr>
<tr>
<td>1977-78</td>
<td>17,407</td>
<td>8,421</td>
</tr>
<tr>
<td>1978-79</td>
<td>20,298</td>
<td>9,654</td>
</tr>
<tr>
<td>1979-80</td>
<td>20,019</td>
<td>9,644</td>
</tr>
<tr>
<td>1980-81</td>
<td>20,363</td>
<td>9,229</td>
</tr>
<tr>
<td>1981-82</td>
<td>18,862</td>
<td>8,427</td>
</tr>
<tr>
<td>1982-83</td>
<td>19,176</td>
<td>8,173</td>
</tr>
<tr>
<td>1983-84</td>
<td>15,509</td>
<td>8,282</td>
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<tr>
<td>1984-85</td>
<td>14,383</td>
<td>7,660</td>
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<tr>
<td>1985-86</td>
<td>14,579</td>
<td>7,170</td>
</tr>
<tr>
<td>1986-87</td>
<td>14,558</td>
<td>6,992</td>
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</tbody>
</table>

*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>
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<tr>
<th>Area</th>
<th>Caron</th>
<th>June</th>
<th>July</th>
<th>Aug</th>
<th>Sept</th>
<th>Oct</th>
<th>Total</th>
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<tr>
<td>0.5</td>
<td>100</td>
<td>200</td>
<td>300</td>
<td>400</td>
<td>500</td>
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<td>2500</td>
</tr>
<tr>
<td>0.6</td>
<td>120</td>
<td>240</td>
<td>360</td>
<td>480</td>
<td>600</td>
<td>720</td>
<td>3000</td>
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<tr>
<td>0.7</td>
<td>140</td>
<td>280</td>
<td>420</td>
<td>560</td>
<td>700</td>
<td>840</td>
<td>3500</td>
</tr>
<tr>
<td>0.8</td>
<td>160</td>
<td>320</td>
<td>480</td>
<td>640</td>
<td>800</td>
<td>960</td>
<td>4000</td>
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</table>

TABLE 4. Value of Landings and Shipments of Commercial Fish Into California by Area, 1977
<table>
<thead>
<tr>
<th>State</th>
<th>Pacific Coast</th>
<th>Alaska</th>
<th>Hawaii</th>
<th>Interisland</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandbl</td>
<td>274,497</td>
<td>232,975</td>
<td>130,398</td>
<td>949,675</td>
<td>29,218</td>
</tr>
<tr>
<td>Hawaii</td>
<td>409,215</td>
<td>306,452</td>
<td>137,083</td>
<td>919,691</td>
<td>19,877</td>
</tr>
<tr>
<td>Alaska</td>
<td>7,892</td>
<td>26,500</td>
<td>35,215</td>
<td>72,965</td>
<td>6,235</td>
</tr>
<tr>
<td>Total</td>
<td>551,610</td>
<td>566,467</td>
<td>202,698</td>
<td>1,235,835</td>
<td>24,560</td>
</tr>
</tbody>
</table>

**TABLE 4—Cont'd.**
<table>
<thead>
<tr>
<th>Species</th>
<th>San Pedro</th>
<th>Santa Barbara</th>
<th>Monterey</th>
<th>Santa Cruz</th>
<th>Oceanside</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuna, yellowfin</td>
<td>156,986</td>
<td>199,066</td>
<td>86,200</td>
<td>75,650</td>
<td>15,240</td>
<td>458,742</td>
</tr>
<tr>
<td>Tuna, albacore</td>
<td>5,230</td>
<td>5,620</td>
<td>1,250</td>
<td>1,122</td>
<td>300</td>
<td>14,522</td>
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<tr>
<td>Wahoo</td>
<td>435,080</td>
<td>435,080</td>
<td>435,080</td>
<td>435,080</td>
<td>435,080</td>
<td>435,080</td>
</tr>
<tr>
<td>Yellowtail</td>
<td>375,080</td>
<td>375,080</td>
<td>375,080</td>
<td>375,080</td>
<td>375,080</td>
<td>375,080</td>
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<tr>
<td>Miscellaneous</td>
<td>1,806</td>
<td>1,806</td>
<td>1,806</td>
<td>1,806</td>
<td>1,806</td>
<td>1,806</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>3,941,509</strong></td>
<td><strong>3,941,509</strong></td>
<td><strong>3,941,509</strong></td>
<td><strong>3,941,509</strong></td>
<td><strong>3,941,509</strong></td>
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</table>

TABLE 4. Value of Landings and Shipments of Commercial Fish Into California by Area, 1977
<table>
<thead>
<tr>
<th>TABLE 4—Cont'd.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small, sm.</td>
</tr>
<tr>
<td>Squid, market</td>
</tr>
<tr>
<td>Miscellaneous,</td>
</tr>
<tr>
<td>Total revenue</td>
</tr>
</tbody>
</table>

**SUGGESTIONS:**
- *Fluke, shrimps, squid, skippers, herring, pelagic*.

| Total revenue     | 10,787.60 | 1,400.03 | 13,223.22 | 15,715.30 | 10,450.59 | 16,000.00 | 46,563.99 |
| Total, herring     | 10,450.59 | 16,000.00 | 11,782.22 | 12,452.22 | 10,450.59 | 16,000.00 | 46,563.99 |
| Total, anchovies   | 10,787.60 | 1,400.03 | 13,223.22 | 15,715.30 | 10,450.59 | 16,000.00 | 46,563.99 |
| Total, shrimp      | 10,787.60 | 1,400.03 | 13,223.22 | 15,715.30 | 10,450.59 | 16,000.00 | 46,563.99 |
| Total, squid       | 10,787.60 | 1,400.03 | 13,223.22 | 15,715.30 | 10,450.59 | 16,000.00 | 46,563.99 |
| Total, skippers    | 10,787.60 | 1,400.03 | 13,223.22 | 15,715.30 | 10,450.59 | 16,000.00 | 46,563.99 |
| Total, pelagic     | 10,787.60 | 1,400.03 | 13,223.22 | 15,715.30 | 10,450.59 | 16,000.00 | 46,563.99 |

| Total revenue     | 56,313.64 | 19,922.02 | 14,042.99 | 13,261.18 | 16,000.00 | 11,782.22 | 46,563.99 |

* Tables 4 through 12 are equivalent to Tables 15 in previous MBB. Bulletin.*
<table>
<thead>
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</thead>
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<tr>
<td>Northern</td>
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<td>811,796</td>
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<td>812,950</td>
<td>813,050</td>
<td>813,150</td>
<td>813,150</td>
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<tr>
<td>Central</td>
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<td>817,295</td>
<td>817,967</td>
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<tr>
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<td>809,000</td>
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<tr>
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<tr>
<td>San Francisco</td>
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<tr>
<td>Santa Barbara</td>
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<tr>
<td>Monterey</td>
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<td>809,000</td>
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</table>

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

<table>
<thead>
<tr>
<th>Species</th>
<th>Pacific North</th>
<th>Pacific South</th>
<th>North Atlantic</th>
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<tbody>
<tr>
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<tr>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Species</td>
<td>North</td>
<td>Central</td>
<td>South</td>
</tr>
<tr>
<td>------------------------------</td>
<td>-------</td>
<td>---------</td>
<td>-------</td>
</tr>
<tr>
<td>Yellowtail, miscellaneous</td>
<td>-</td>
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<tr>
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<tr>
<td>Total</td>
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<td>8,780</td>
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<td>6,356</td>
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<td>Total</td>
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<td>942,692</td>
<td>6,356</td>
</tr>
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<td>Crab, California king</td>
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</tr>
<tr>
<td>Domestic</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Total</td>
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<tr>
<td>Crab, rock</td>
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</tr>
<tr>
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<tr>
<td>Total</td>
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<td>Crab, spot</td>
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</tr>
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<td>Total</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Lobster, California</td>
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</tr>
<tr>
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<td>-</td>
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</tr>
<tr>
<td>Scup</td>
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<td>-</td>
</tr>
<tr>
<td>Domestic</td>
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</tr>
<tr>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Flounder, red</td>
<td>-</td>
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<td>-</td>
</tr>
<tr>
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<td>-</td>
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</tr>
<tr>
<td>Total</td>
<td>-</td>
<td>-</td>
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</tr>
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<tr>
<td>Total</td>
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<tr>
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<tr>
<td>Domestic</td>
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</tr>
<tr>
<td>Total</td>
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<td>-</td>
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</tr>
<tr>
<td>Flounder, miscellaneous</td>
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</tr>
<tr>
<td>Domestic</td>
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<tr>
<td>Total</td>
<td>123,296</td>
<td>10,502</td>
<td>6,815</td>
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</tbody>
</table>

TABLE 5. Value of Landings and Shipments of Commercial Fish Into California by Area, 1978
### TABLE 5—Cont'd.

<table>
<thead>
<tr>
<th>Species</th>
<th>Pounds</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hake, white</td>
<td>108</td>
<td>2,563</td>
</tr>
<tr>
<td>Hake, miscellaneous</td>
<td>192</td>
<td>1,098</td>
</tr>
<tr>
<td>Cod</td>
<td>380</td>
<td>6,334</td>
</tr>
<tr>
<td>Haddock</td>
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<td>44</td>
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<tr>
<td>Haddock, miscellaneous</td>
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<td>416</td>
</tr>
<tr>
<td>Horse mackerel</td>
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</tr>
<tr>
<td>Horse mackerel, miscellaneous</td>
<td>492</td>
<td>2,601</td>
</tr>
<tr>
<td>Oyster, eastern</td>
<td>17</td>
<td>41</td>
</tr>
<tr>
<td>Oyster, European flat</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Oyster, quahog Pacific</td>
<td>122</td>
<td>3,372</td>
</tr>
<tr>
<td>Smalls, miscellaneous</td>
<td>108</td>
<td>40</td>
</tr>
<tr>
<td>Sand, medium</td>
<td>270</td>
<td>40</td>
</tr>
<tr>
<td>Sand, sandstone</td>
<td>122</td>
<td>40</td>
</tr>
<tr>
<td>Total pounds</td>
<td>60,345,899</td>
<td>17,201,361</td>
</tr>
<tr>
<td>Total value</td>
<td>132,184,160</td>
<td>21,051,790</td>
</tr>
</tbody>
</table>

**REMARKS:**
- Fish
- Hake, albacore
- Hake, horse mackerel
- Hake, miscellaneous
- Haddock
- Haddock, miscellaneous
- Oyster, eastern
- Oyster, European flat
- Oyster, quahog Pacific
- Smalls, miscellaneous
- Sand, medium
- Sand, sandstone
- Total pounds
- Total value

**Grand total pounds:** 60,345,899
**Grand total value:** 132,184,160

---

**TABLE 5—Cont'd.**

<table>
<thead>
<tr>
<th>Species</th>
<th>Pounds</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hake, white</td>
<td>108</td>
<td>2,563</td>
</tr>
<tr>
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<tr>
<td>Total value</td>
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**REMARKS:**
- Fish
- Hake, albacore
- Hake, horse mackerel
- Hake, miscellaneous
- Haddock
- Haddock, miscellaneous
- Oyster, eastern
- Oyster, European flat
- Oyster, quahog Pacific
- Smalls, miscellaneous
- Sand, medium
- Sand, sandstone
- Total pounds
- Total value

**Grand total pounds:** 60,345,899
**Grand total value:** 132,184,160
TABLE 6. Value of Landings and Shipments of Commercial Fish Into California by Area, 1979

<table>
<thead>
<tr>
<th>Species</th>
<th>Ex-Floridan</th>
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TABLE 6. Value of Landings and Shipments of Commercial Fish Into California by Area, 1979
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<th>2,721.449</th>
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<th>1,270.286</th>
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**Note:**
- Data provided by the Alaska Department of Fish and Game. 
- Figures represent landings and catches from the years 1937 to 1996. 

**Table 6—Cont’d.**
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**TABLE 6. Value of Landings and Shipments of Commercial Fish Into California by Area, 1979**
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<th>TABLE 6—Cont’d.</th>
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TABLE 7. Value of Landings and Shipments of Commercial Fish Into California by Area, 1980

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<th>Species</th>
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<th>San Francisco</th>
<th>Santa Barbara</th>
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<th>Santa Cruz</th>
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<td><strong>Total</strong></td>
<td>3,655,600</td>
<td>5,679,980</td>
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<td>4,057,000</td>
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<td>15,361,459</td>
<td>4,057,000</td>
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<tr>
<td><strong>Scup</strong></td>
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<td>4,080,958</td>
<td>18,012,251</td>
<td>15,361,459</td>
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<tr>
<td><strong>Total</strong></td>
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TABLE 7. Value of Landings and Shipments of Commercial Fish Into California by Area, 1980
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**TABLE 7. Value of Landings and Shipments of Commercial Fish Into California by Area, 1980**
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**TABLE 8. Value of Landings and Shipments of Commercial Fish Into California by Area, 1981**
<table>
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<tr>
<th>Species</th>
<th>1997</th>
<th>1998</th>
<th>1999</th>
<th>2000</th>
<th>2001</th>
<th>2002</th>
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<td>1,264</td>
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<td>6,709</td>
<td>6,709</td>
<td>6,709</td>
<td>6,709</td>
<td>6,709</td>
</tr>
<tr>
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<td>7,709</td>
<td>7,709</td>
<td>7,709</td>
<td>7,709</td>
<td>7,709</td>
</tr>
<tr>
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<td>6,710</td>
<td>6,710</td>
<td>6,710</td>
<td>6,710</td>
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<td>87,710</td>
<td>87,710</td>
<td>87,710</td>
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</tr>
<tr>
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</tr>
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<td>87,710</td>
</tr>
<tr>
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<td>87,710</td>
<td>87,710</td>
<td>87,710</td>
<td>87,710</td>
</tr>
<tr>
<td>Tomales_knoten</td>
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<td>87,710</td>
</tr>
<tr>
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<td>87,710</td>
<td>87,710</td>
<td>87,710</td>
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<tr>
<td>Tuna, knopp</td>
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**TABLE 8—Cont'd.**
TABLE 8 (continued). Value of Landings and Shipments of Commercial Fish Into California by Area, 1981

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<thead>
<tr>
<th>Fishes</th>
<th>Sacramento</th>
<th>San Francisco</th>
<th>Monterey</th>
<th>Santa Cruz</th>
<th>Los Angeles</th>
<th>Total</th>
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</thead>
<tbody>
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<td>Sardine</td>
<td>91,575</td>
<td>1,108</td>
<td>1,481</td>
<td>2,152</td>
<td>41,600</td>
<td>198,708</td>
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<td>1,024</td>
<td>1,024</td>
<td>1,024</td>
<td>1,024</td>
<td>4,144</td>
</tr>
<tr>
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<td>3,600</td>
<td>2,905</td>
<td>2,905</td>
<td>2,905</td>
<td>14,215</td>
</tr>
<tr>
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<td>2,905</td>
<td>3,600</td>
<td>2,905</td>
<td>2,905</td>
<td>2,905</td>
<td>14,215</td>
</tr>
<tr>
<td>Scomber australasicus</td>
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<td>3,600</td>
<td>2,905</td>
<td>2,905</td>
<td>2,905</td>
<td>14,215</td>
</tr>
<tr>
<td>Hake</td>
<td>1,024</td>
<td>1,024</td>
<td>1,024</td>
<td>1,024</td>
<td>1,024</td>
<td>4,144</td>
</tr>
<tr>
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<td>2,905</td>
<td>3,600</td>
<td>2,905</td>
<td>2,905</td>
<td>2,905</td>
<td>14,215</td>
</tr>
<tr>
<td>Pacific halibut</td>
<td>2,905</td>
<td>3,600</td>
<td>2,905</td>
<td>2,905</td>
<td>2,905</td>
<td>14,215</td>
</tr>
<tr>
<td>Salmon</td>
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<td>3,600</td>
<td>2,905</td>
<td>2,905</td>
<td>2,905</td>
<td>14,215</td>
</tr>
<tr>
<td>Pacific whiting</td>
<td>2,905</td>
<td>3,600</td>
<td>2,905</td>
<td>2,905</td>
<td>2,905</td>
<td>14,215</td>
</tr>
<tr>
<td>Miscellaneous fish</td>
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<td>2,905</td>
<td>2,905</td>
<td>2,905</td>
<td>14,215</td>
</tr>
</tbody>
</table>

**Total** | **1,024** | **3,600** | **1,024** | **1,024** | **1,024** | **4,144** |

**Total** | **29,050** | **36,000** | **29,050** | **29,050** | **29,050** | **142,150** |
<table>
<thead>
<tr>
<th>TABLE 8—Cont’d.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Makino, red.........</td>
</tr>
<tr>
<td>Makino, white......</td>
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<tr>
<td>Makino, brown......</td>
</tr>
<tr>
<td>Makino, miscellaneous</td>
</tr>
<tr>
<td>Cost..................</td>
</tr>
<tr>
<td>Total................</td>
</tr>
<tr>
<td>Species................</td>
</tr>
<tr>
<td>Species, European flat...</td>
</tr>
<tr>
<td>Species, green Parrot...</td>
</tr>
<tr>
<td>Shrimp, redondo......</td>
</tr>
<tr>
<td>Shrimp, redondo........</td>
</tr>
<tr>
<td>Shrimp, brown........</td>
</tr>
<tr>
<td>Shrimp, miscellaneous..</td>
</tr>
<tr>
<td>Total shrimp...........</td>
</tr>
<tr>
<td>Total total............</td>
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**ANIMALS**

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<tr>
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<tbody>
<tr>
<td>Total prodeces......</td>
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<tr>
<td>Total value..........</td>
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<tr>
<td>Grand total prodeces</td>
</tr>
<tr>
<td>Grand total sales....</td>
</tr>
<tr>
<td>Species</td>
</tr>
<tr>
<td>----------------------</td>
</tr>
<tr>
<td>Anchovy, northern</td>
</tr>
<tr>
<td>Barracuda, California</td>
</tr>
<tr>
<td>Bass, green -</td>
</tr>
<tr>
<td>Bass, striped</td>
</tr>
<tr>
<td>Bluefish, Pacific</td>
</tr>
<tr>
<td>Butterfish, Pacific</td>
</tr>
<tr>
<td>Calamus</td>
</tr>
<tr>
<td>Caper, white</td>
</tr>
<tr>
<td>Caper, yellow</td>
</tr>
<tr>
<td>Sardine, eastern</td>
</tr>
<tr>
<td>Sardine, miscellaneous</td>
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<tr>
<td>Leopard,</td>
</tr>
<tr>
<td>Northern,</td>
</tr>
<tr>
<td>Oceanic,</td>
</tr>
<tr>
<td>Pacific,</td>
</tr>
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<td>Penaeus</td>
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<tr>
<td>This species</td>
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<tr>
<td>Other</td>
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TABLE 9. Value of Landings and Shipments of Commercial Fish Into California by Area, 1982
<table>
<thead>
<tr>
<th>TABLE 9—Cont'd.</th>
</tr>
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<tbody>
<tr>
<td>California</td>
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<tr>
<td>Oregon</td>
</tr>
<tr>
<td>Washington</td>
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<tr>
<td>Nevada</td>
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<td>Idaho</td>
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<td>Montana</td>
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<tr>
<td>Wyoming</td>
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<tr>
<td>Utah</td>
</tr>
<tr>
<td>Colorado</td>
</tr>
<tr>
<td>New Mexico</td>
</tr>
<tr>
<td>Arizona</td>
</tr>
<tr>
<td>Hawaii</td>
</tr>
<tr>
<td>Alaska</td>
</tr>
<tr>
<td>Other States</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

Note: Data are in millions of dollars.
<table>
<thead>
<tr>
<th>Species</th>
<th>San Francisco</th>
<th>Monterey</th>
<th>Santa Barbara</th>
<th>Santa Cruz</th>
<th>Santa Rosa</th>
<th>San Diego</th>
<th>Los Angeles</th>
<th>San Diego</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>344</td>
<td>386</td>
<td>84</td>
<td>346</td>
<td>914</td>
<td>2,915</td>
<td>1,897</td>
<td>2,897</td>
</tr>
<tr>
<td>Total, exkipper</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Tom. pelamis</td>
<td>147</td>
<td>74</td>
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<td>1,520</td>
<td>79,725</td>
<td>40,447</td>
<td>1,154</td>
<td>74,467</td>
</tr>
<tr>
<td>Tom. salmoneformis</td>
<td>487</td>
<td>192</td>
<td>213</td>
<td>41,299</td>
<td>3,743</td>
<td>49,333</td>
<td>246,917</td>
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<tr>
<td>Tom. hairpinna</td>
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<td>44,320</td>
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<tr>
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<td>140</td>
<td>3,802</td>
<td>44,915</td>
<td>82,162</td>
<td>197,325</td>
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<tr>
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<td>10,710</td>
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<tr>
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<td>140</td>
<td>3,802</td>
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<td>82,162</td>
<td>197,325</td>
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<tr>
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<td>237</td>
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</table>

**TABLE 9. Value of Landings and Shipments of Commercial Fish Into California by Area, 1982**
<table>
<thead>
<tr>
<th>Fish</th>
<th>Alaska, Aleutian</th>
<th>Central, California</th>
<th>Northern, California</th>
<th>Mendocino, California</th>
<th>Monterey, California</th>
<th>San Diego, California</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
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<td>107,135</td>
<td>6,961,184</td>
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<tr>
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<td>653</td>
<td>347</td>
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</table>

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

<table>
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<th>Column 2</th>
<th>Column 3</th>
<th>Column 4</th>
<th>Column 5</th>
<th>Column 6</th>
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<td>Data 34</td>
<td>Data 35</td>
<td>Data 36</td>
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<td>San Luis Obispo</td>
<td>San Diego</td>
<td>Salton Sea</td>
<td>San Francisco</td>
</tr>
<tr>
<td>-----------------------</td>
<td>--------------</td>
<td>----------------</td>
<td>-----------</td>
<td>------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Overall</td>
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TABLE 10. Value of Landings and Shipments of Commercial Fish Into California by Area, 1983
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Total value: $335,553,394, $335,553,394, $335,553,394, $335,553,394, $335,553,394, $335,553,394, $335,553,394, $335,553,394

* Beginning 1982, species production is no longer reported in this data series.
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<th>Santa Barbara</th>
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**TABLE 11.** Value of Landings and Shipments of Commercial Fish Into California by Area, 1984
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### Table 11. Value of Landings and Shipments of Commercial Fish Into California by Area, 1984
### TABLE 11—Cont'd.

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Total pounds: 199,799.900

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<tr>
<th>Species</th>
<th>No.</th>
<th>Length (in)</th>
<th>Weight (lb)</th>
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Total pounds: 199,799.900

**Flagfish**

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<th>No.</th>
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<th>Weight (lb)</th>
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<tr>
<td>Teu. cheni</td>
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<td>Teu. diacanthus</td>
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<tr>
<td>Teu. sylvius</td>
<td>90</td>
<td>24-31</td>
<td>1.45</td>
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Total pounds: 199,799.900

<table>
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<th>Species</th>
<th>No.</th>
<th>Length (in)</th>
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Total pounds: 199,799.900

**Grand total pounds:** 199,799.900
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<thead>
<tr>
<th>Area</th>
<th>San Francisco</th>
<th>Monterey</th>
<th>Santa Barbara</th>
<th>Los Angeles</th>
<th>San Diego</th>
<th>Total</th>
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TABLE 12. Value of Landings and Shipments of Commercial Fish Into California by Area, 1985
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<th>Species</th>
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<th>1929</th>
<th>1930</th>
<th>1931</th>
<th>1932</th>
<th>1933</th>
<th>1934</th>
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<td>1,480</td>
<td>1,320</td>
<td>1,250</td>
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<td>62,374</td>
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**TABLE 12—Cont'd.**
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<th>Monterey</th>
<th>Santa Cruz</th>
<th>Los Angeles</th>
<th>For.</th>
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TABLE 12. Value of Landings and Shipments of Commercial Fish Into California by Area, 1985
<table>
<thead>
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<th>Table 12—Cont'd.</th>
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<tbody>
<tr>
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<table>
<thead>
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<tbody>
<tr>
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<td>29,733,700</td>
<td>27,973,700</td>
<td>26,641,700</td>
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</tbody>
</table>

**SIMPONENTS:**

- **Non-penaei**
  - Roce, albacore... | - | - | - | - | - | - | - | - | - | - |
  - Tuna, skipjack... | - | - | - | - | - | - | - | - | - | - |
  - Tuna, miscellaneous... | - | - | - | - | - | - | - | - | - | - |

**Total penaeid...** | - | - | - | - | - | - | - | - | - | - |

**Total fishery...** | - | - | - | - | - | - | - | - | - | - |

**Grand total penaeid...** | - | - | - | - | - | - | - | - | - | - |

**Total...** | - | - | - | - | - | - | - | - | - | - |

**Grand total fishery...** | - | - | - | - | - | - | - | - | - | - |

**Total...** | - | - | - | - | - | - | - | - | - | - |

**Grand total...** | - | - | - | - | - | - | - | - | - | - |
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<th>Mendocino</th>
<th>Shasta</th>
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<td>9,599</td>
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**Note**: The table continues with data for other species, but the full content is not visible in the image provided.
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**Table 13:** Value of Landings and Shipments of Commercial Fish Into California by Area, 1986
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<td>323,423</td>
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**Total**

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TABLE 14: Statewide Catch by Species of Commercial Passenger Fishing Vessels (Not including anchored barges)

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