

FISHERY STATISTICS OF THE UNITED STATES 1961



STATISTICAL DIGEST NO. 54

UNITED STATES DEPARTMENT OF THE INTERIOR

FISH AND WILDLIFE SERVICE

Bureau of Commercial Fisheries



UNITED STATES DEPARTMENT OF THE INTERIOR

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STATISTICAL DIGEST 54

FISHERY STATISTICS
OF THE UNITED STATES
1961

BY

E. A. POWER

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Fishery statistics of the United States are compiled and published annually to make available information on both the economic and biological aspects of the domestic commercial fisheries.

Data on the economic aspects are necessary to persons engaged in the commercial fishery and to governmental agencies concerned with its regulation and protection. Those here given cover the total catch and value by species, the yield and value of manufactured products, the employment of men, craft, and gear in the capture of fishery products; and related information.

From the biological standpoint these data are important to sound fishery management in providing detailed information on fluctuations in the commercial catch by species, locality, and gear, and type of craft operated. They assist conservation agencies in regulating the commercial fisheries so as to produce maximum yields without depletion.

Previous statistical reports on the fishery industries were issued under the Department of the Interior in the Administrative Report series for 1938 and in the Statistical Digest series for succeeding years. Reports for preceding years were issued in the Administrative Report series of the former Bureau of Fisheries.

The following is a listing of the various editions of "Fishery Statistics of the United States" issued since 1939:

| Statistical Digest Number | Title |
|---------------------------------|---|
| No. 1 | Fishery Statistics of the United States, 1939 |
| 4 | Fishery Statistics of the United States, 1940 |
| 7 | Fishery Statistics of the United States, 1941 |
| 11 | Fishery Statistics of the United States, 1942 |
| 14 | Fishery Statistics of the United States, 1943 |
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FISHERY STATISTICS OF THE UNITED STATES - 1961

By E.A. POWER, Chief, Branch of Statistics

Division of Resource Development

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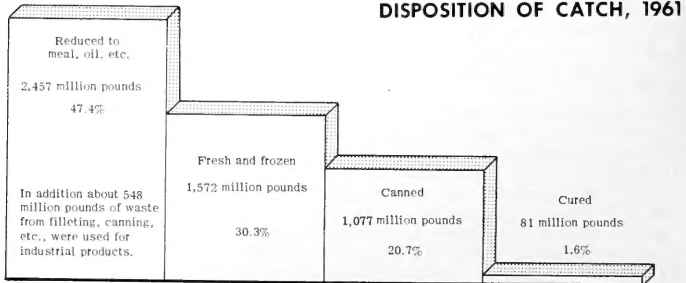
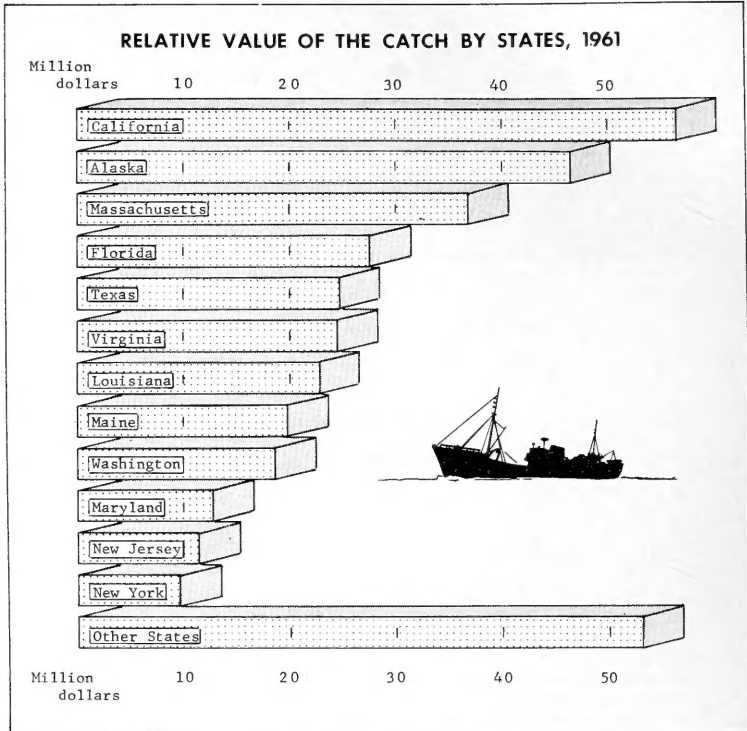
PREFACE

This report contains a review of the fishery statistics for the year 1961 collected by the Branch of Statistics, Division of Resource Development. These statistics include data on the volume and value of the catch of fishery products, employment in the fisheries, quantity of gear operated, number of fishing craft employed in the capture of fishery products, information on the volume and value of the production of manufactured fishery products, data on cold storage freezings and holdings, and on foreign trade in fishery commodities.

In assembling the data on the fisheries, all appropriate records collected by the various State fishery agencies were used. In certain areas, information complete enough to be used by the statistical agents was available from State agencies, and in these States, only partial surveys were conducted. Information on the means of collecting the data and an explanation of terms used may be found in Section 13 of this publication. Statistics on the imports and exports of fishery products were furnished by the Bureau of the Census.

Complete statistical surveys covering the fisheries of the United States were conducted in all areas for 1961, except for the Mississippi River States, where only a partial survey was made. The first complete survey of the fisheries of the United States was made by the Bureau of the Census for 1908. Others were made by the Bureau of Fisheries and the Fish and Wildlife Service for the years 1931, 1950, and for the years 1954 to 1960, inclusive.

To assist persons interested in reviewing historical statistics of the domestic fisheries, a bibliography was published in the 1956 edition of "Fishery Statistics of the United States," listing the sources of data on the fisheries of the various regions of the United States for the years from 1880 to 1956.



SECTION 1 - GENERAL REVIEW

The 1961 commercial fisheries of the United States yielded a catch of 5.2 billion pounds valued at \$362 million to the fishermen. The annual harvest was greater only in 1956, when a record 5.3 billion pounds were taken. Landings in 1961 were 244 million pounds larger than in 1960. The total amount paid fishermen in 1961 (\$362 million) was nearly \$9 million more than in the previous year, but \$11 million less than the record \$373 million paid in 1958. The average price per pound was 6.98¢, the lowest since World War II, except for 1959. The large catch of low-priced menhaden was responsible for the low price per pound. Record catches of menhaden, king crabs, clams, catfish and bullheads, and sea scallops; and substantial gains in landings of Pacific salmon, tuna, mackerel (jack and Pacific), and haddock accounted for the 1961 gain in volume. There were, however, sharp declines in the landings of shrimp, Atlantic and Pacific sea herring, and Pacific sardines.

The 1961 catch was taken by 129,693 fishermen. Of these 41,055 were employed on vessels. A total of 11,964 vessels of 5 tons and over, 60,118 motor boats, and 5,405 other craft engaged in commercial fishing during the year. The 4,138 fish wholesaling and manufacturing plants in the United States employed 92,115 persons. Fishermen engaged in processing their catches into manufactured products numbered 820.

The record 2.3 billion pounds of menhaden taken in 1961 were the largest annual landings of a single item in the history of the United States fisheries. Menhaden has ranked first in volume continuously since 1946. The 1961 receipts were 296 million pounds above those of the previous year and exceeded the 1959 record by 112 million pounds. Menhaden accounted for 45 percent of the domestic catch in 1961. Production from waters north of Cape Cod was poor in 1961, but catches increased in all other areas. In the Gulf of Mexico, fishing was most encouraging, and for the first time landings exceeded 1 billion pounds.

In the spring of 1961, concern was expressed over the decline in the price of fish meal. An international meeting was held in Rome, to assess the world demand for fish meal and to explore possibilities of insuring stable international markets for this product. By the end of 1961, meal was in light supply, although United States production and imports were the largest in history. Prices had shown a marked recovery, and dealers were actively seeking new sources of meal.

The 1961 Pacific salmon catch was 310 million pounds valued at a near-record \$52 million. Although the volume taken was 75 million pounds larger than in 1960, it was still far less than the record 791 million pounds landed in 1936. The 1961 pack of canned salmon (3.7 million cases valued at \$117 million) exceeded the 1960 pack by 30 percent in volume and 33 percent in value.

The catch of salmon was favorable in nearly all sections of the Pacific Coast, although most of the increase occurred in Alaska. Alaska landings (265 million pounds) were the largest since 1956, and their value (\$36 million) was a record. The catch of red salmon in Western Alaska was the best since 1948, and the pink salmon catch in the northern waters of Southeastern Alaska was the largest since 1951. In Central Alaska, salmon fishing along the Alaska Peninsula and Kodiak Island was about the same as in the previous year; however, Prince William Sound had an excellent, but unexpected, run of pink salmon. In Washington, due principally to largerruns of silver and pink salmon, the catch exceeded the previous year by 81 percent. Oregon and California landings were also considerably above the 1960 level.

The Pacific tuna industry, stimulated by the success of converted seiners and the rapidly increasing consumption of canned tuna, displayed spectacular economic progress in 1961. Domestic landings by the Pacific tuna fleet increased from 288 million pounds in 1960 to 311 million pounds in 1961. Catches of yellowfin, skipjack, and bluefin were larger, although the volume of albacore landed was somewhat less than in the previous year. About 88 percent of the catch of tuna was taken on the high seas in waters off Central and South America.

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The California tuna fleet (changed by conversion from a predominantly clipper fleet, fishing with hook and line, to a purse seine fleet fishing with hugh nets) took large quantities of yellowfin in 1961. There were indications, however, that this species was being overfished, and considerable effort was devoted to taking skipjack. In 1961, the Inter-American Tropical Tuna Commission recommended that a catch limit be placed on yellowfin tuna in order to maintain stocks at a level that would permit the maximum sustainable yield.

The catch of tuna by purse seines was a record 234.3 million pounds--60.2 million pounds more than in 1960. Lines of all types accounted for only 89.1 million pounds--33.5 million pounds less than in 1960, and 246.5 million pounds under the record 335.6 million pounds taken by this gear in 1950.

Producers of canned tuna turned out the largest pack (15.8 million cases) in history, valued at a new high of \$189 million. Compared with 1960, this was an increase of 462,000 cases and \$16 million. Of the total United States pack, 56 percent was canned from the domestic catch--5 percent more than in 1960. The pack in the Pacific Coast States, (11.8 million standard cases valued at \$141.1 million) represented 75 percent of the volume and 75 percent of the value of the total domestic pack of these fish.

The United States catch of shrimp amounted to 175 million pounds, with an ex-vessel value of nearly \$52 million. Compared with 1960, the volume landed was down 75 million pounds or 30 percent; the value, \$15 million or 23 percent. The catch was 94 million pounds less than the record 268 million pounds landed in 1954.

The catch of shrimp in the South Atlantic States was the poorest, for any year in which data have been collected, since 1918. The situation was also discouraging in the Gulf of Mexico, where landings decreased drastically in all States. On the Pacific Coast, catches were larger in Alaska, but the combined catch in the other West Coast States was almost identical with the previous year.

Production of packaged, raw, and headless shrimp in 1961 was 32.4 million pounds below that of 1960; however, peeled and deveined and breaded shrimp was up 7 percent. The increase in the latter category resulted from record imports of 126 million pounds, which partially compensated for the poor production from waters off the South Atlantic States and in the Gulf of Mexico.

The 1961 catch of sea herring (only 113 million pounds) was less than half the 239 million pounds taken in 1960. On the Atlantic Coast, Maine landings of herring (used principally for canning sardines) were only 54 million pounds--a decrease of 98 million pounds from the previous year. Imports of herring into Maine from Canada also declined. There was no clear-cut explanation for the shortage of fish in inshore waters, as there were indications of a supply offshore, throughout the season. In an effort to help the industry, a temporary measure was passed by the Maine State Legislature ending all seasons and placing the fishery on a year-round basis until January 1963. However, the pack of 754,000 cases was the smallest in 23 years. Imports of canned sardines in oil were up 31 percent and the nonoil pack was up 138 percent. Although imports alleviated the shortage resulting from the poor domestic season, they also caused concern over the possible loss of markets to foreign packers.

Pacific Coast landings of sea herring, taken mostly in Alaska for manufacture into meal and oil, were only 54 million pounds. The catch was the lowest since 1954, and one of the half-dozen smallest since the early 1920's, when there was a large expansion in the Alaska herring reduction industry.

New England groundfish landings (cod, cusk, haddock, hake, pollock, and ocean perch) were 336 million pounds--about 3 percent above those of the previous year. Despite the small overall increase in catch, the North Atlantic groundfish industry continued in the depressed condition that has prevailed for the past decade. Haddock landings (133.5 million pounds) were 15 million pounds larger than in 1960, and cod (42 million pounds) was up 7 million pounds. The catch of ocean perch, however, fell to 132 million pounds from 141 million pounds in 1960. Imports continued to provide an ever-increasing percentage of the United States supply of groundfish filets, accounting for 68 percent of the total 1961 supply of 288 million pounds. In 1951, only 37 percent of the supply of groundfish came from imports; and in 1939, only 9 percent.

The 1961 halibut fishery of the United States and Canada in the Northeastern Pacific Ocean and Bering Sea caught 69.5 million pounds (landed weight). The catch was about 2.4 million pounds less than the record 71.9 million pounds taken in 1960. Contributing to the decline was the elimination of the second fishing season in Area 2. The short postseason in this area usually yields about half the amount of the 1961 decline. United States fishermen landed 40 million pounds (58 percent) of the 1961 total. Canadian fishermen took less fish than in the previous year (42 percent), thus reversing a trend of the past few years when Canadian fishermen had been increasing their percentage. Halibut fishing continued throughout the season without interruption from labor or price difficulties. Ex-vessel prices were good.

The fishery for Pacific and jack mackerel was better in 1961 than in the previous year. The catch of jack mackerel increased from 75 million pounds in 1960 to 98 million pounds, or 30 percent. Pacific mackerel landings were up from 37 million pounds to 44 million pounds, for a 20-percent increase. Mackerel was relatively plentiful throughout 1961, although fishermen found them in waters well offshore, rather than in the customary inshore areas. Cannerymen found it necessary to set trip quotas for the seiners during virtually the entire season.

The 1961 Pacific sardine season was one of the poorest on record. The catch (only 43 million pounds) was 14 million pounds, or 25 percent, less than in 1960, and only 3 percent of the record 1.5 billion pounds taken in 1936. The 1961 pack of Pacific sardines (419,000 cases valued at \$3.7 million) was the fourth smallest since World War I. Cannerymen were anxious for fish, and prices were stable; but large quantities of sardines failed to appear off Southern California. Fishermen reported the fish to be wild, making it impossible at times to make large catches on single sets.

The 1961 catch of crabs was a record 232 million pounds valued at \$17 million. Compared with 1960, this was an increase of 10 million pounds (4 percent) in volume and \$269,000 (2 percent) in value. The gain was largely in Alaska, where the spectacular king crab industry increased its catch from 28.6 million pounds in 1960 to 43.4 million pounds in 1961. Landings of blue crabs in the Chesapeake area established a new record, and catches in the Gulf were the heaviest since 1945; however, a decline in the South Atlantic catch resulted in an overall decrease in blue crab landings. On the Pacific Coast, Dungeness crab catches were less than in the previous year.

The 1961 production of oysters, although 2.3 pounds above the landings in 1960, was one of the smallest in over one hundred years. The catch of 62 million pounds, valued at \$33 million, was only 40 percent of the 1908 landings of 152 million pounds. Production was down in the New England, South Atlantic, and Pacific Coast States, but was up in other areas. A heartening development was the increased harvest in New Jersey, where the fishery had nearly been wiped out by disease.

A total of 343 whales (72 more than in 1960) was taken by six catcher vessels operated by two whaling stations located in San Francisco Bay and a third company located at the mouth of the Columbia River. The season was the most successful since whaling resumed on the Pacific Coast of the United States in 1956. The catch was processed into nearly 12 million pounds of whale products, valued at \$847,000.

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A total of 95,974 sealskins was harvested on the Pribilof Islands in 1961--the third largest production in this century. Only in 1943, (117,184 skins) and 1956, (122,826 skins) was the yield greater.

UNITED STATES CATCH, 1946-61

| Year | Quantity | Value to fishermen | Average price per pound |
|----------------|-----------------------|------------------------|-------------------------|
| | <u>Million pounds</u> | <u>Million dollars</u> | <u>Cents</u> |
| 1946 | 4,467 | 313 | 7.01 |
| 1947 | 4,349 | 312 | 7.16 |
| 1948 | 4,513 | 371 | 8.22 |
| 1949 | 4,804 | 343 | 7.13 |
| 1950 | 4,901 | 347 | 7.09 |
| 1951 | 4,433 | 365 | 8.23 |
| 1952 | 4,432 | 364 | 8.20 |
| 1953 | 4,487 | 356 | 7.94 |
| 1954 | 4,762 | 359 | 7.55 |
| 1955 | 4,809 | 339 | 7.05 |
| 1956 | 5,268 | 372 | 7.06 |
| 1957 | 4,789 | 354 | 7.39 |
| 1958 | 4,747 | 373 | 7.86 |
| 1959 | 5,122 | 346 | 6.76 |
| 1960 | 4,942 | 354 | 7.15 |
| 1961 | 5,187 | 362 | 6.98 |

San Pedro, California, was the leading United States fishing port in 1961, in both volume and value. Landings there were 420 million pounds, having an ex-vessel value of \$36 million. Pascagoula, Mississippi, was second with 384 million pounds; followed by Lewes, Delaware, 303 million pounds; Reedville, Virginia, 272 million pounds; Cameron, Louisiana, 252 million pounds; and Empire, Louisiana, 247 million pounds. Of these, all but San Pedro were entirely, or principally, menhaden ports. New Bedford, Massachusetts, was second in value of landings with \$15 million; followed by Boston, Massachusetts, \$10 million; San Diego, California, \$8 million; and Gloucester, Massachusetts, \$6 million.

In 1961, as in 1959, the catch taken for industrial products (2.7 billion pounds) exceeded the quantity for human food (2.5 billion pounds). Industrial products included the amount manufactured into meal, solubles, and oil; used for bait; fed to fur-bearing animals and pets; and manufactured into shell buttons, etc. It was estimated that the 1961 catch was marketed as follows: 1,572 million pounds (round weight) as fresh and frozen, 1,077 million pounds for canning, 81 million pounds for cured products, and 2,457 million pounds for manufacture into industrial products. About 548 million pounds of waste for filleting, canning, and otherwise preparing fish for market were also used in the manufacture of industrial products.

The per capita consumption of fish and shellfish in the United States in 1961 amounted to 10.7 pounds (edible weight)--0.4 pound more than in 1960. Of this amount, fresh and frozen items accounted for 5.9 pounds; canned, 4.3 pounds; and cured, 0.5 pound. There has been little change in the per capita consumption of fish and shellfish during the past 30 years, except from 1931 to 1934, and 1942 to 1944, when consumption declined due to the depression of the 1930's and World War II. However, while total consumption has remained steady, there has been a sharp decline in consumption of domestic products and a corresponding gain in imports. Available data indicated that in 1948, over 80 percent of the items consumed were of domestic origin, compared with less than 60 percent in 1961.

The total pack of canned fishery products by 366 plants in the United States, American Samoa, and Puerto Rico, amounted to 33 million standard cases (1 billion pounds) valued at \$423 million to the packers. Compared with 1960, production was down 1.5 million cases (46 million pounds). The value, however, was \$35 million above that of the previous year. Increased production of high-valued salmon, tuna, mackerel, crab meat, and clam products was responsible for the gain. The pack for human consumption was 42 million pounds above that of 1960 due to larger packs of salmon, tuna, and mackerel. Canned bait and animal food was less than in 1960, because animal food containing less than 10 pounds of fish per standard case of 48 pounds was excluded in 1961. (The pack containing less than 10 pounds per case amounted to 2.4 million standard cases). The value of two items--canned salmon and tuna--accounted for 72 percent of the total revenue received by producers of canned fishery products in 1961.

The 1961 production of industrial fishery products by 170 plants in the United States, American Samoa, and Puerto Rico, in 1961, was valued at \$74.6 million. Compared with 1960, this was an increase of \$8 million. Production of marine animal scrap and meal increased from 290,000 tons in 1960 to 311,000 tons in 1961, establishing a new record. Menhaden meal represented 80 percent of the total. Over 34 million gallons of marine-animal oils were produced in 1961. Compared with 1960, this was an increase of 6.5 million gallons, and the largest production since 1939, when the California sardine fishery was at its peak. Menhaden oil (31.4 million gallons) accounted for 91 percent of the total. Fish solubles and homogenized condensed fish increased from 99,000 tons in 1960, to 112,000 tons in 1961. However, it was well below the 165,000 tons manufactured in 1959. Some firms added solubles to their meal, which resulted in the production being reported as meal, rather than solubles. Products from oyster shells and buttons from fresh-water and marine mollusk shells were valued at \$9.4 million in 1961. Other industrial products (agar-agar, fish feed pellets and animal feeds, Irish moss extract, kelp products, liquid fertilizer, mollusk shell lime, pearl essence, and crab shells) manufactured in 1961 were valued at \$13.4 million.

The production of fresh and frozen packaged fish fillets and steaks in the United States during 1961 totaled 158.1 million pounds valued at \$51.8 million to the processors. This was an increase of 4.9 million pounds (3 percent) and \$3.3 million (7 percent) compared with 1960. It was estimated that 448.6 million pounds of round whole fish were required for the 1961 production of packaged fillets and steaks. Haddock fillets (38.2 million pounds) and Atlantic ocean perch fillets (37.5 million pounds) were the leading items in 1961, accounting for 48 percent of the total volume and 41.5 percent of the total value. Other leading items filleted and steaked were flounders, cod, halibut, and pollock, which made up 37 percent of the total quantity and 42 percent of the total value. The greatest production of packaged fish occurred in the New England area, which accounted for 70 percent of the volume and 61 percent of the total value.

The 1961 production of frozen fish and shellfish by firms reporting to the Bureau of Commercial Fisheries totaled 319.6 million pounds. Leading products frozen during the year were shrimp, (74 million pounds); bait and animal food, (67.6 million pounds); blocks, fillets, and steaks, consisting largely of ocean perch and haddock (56 million pounds); halibut (32.7 million pounds); and headed and gutted whiting (29 million pounds). These items accounted for 81 percent of the total freezings of fish and shellfish. It was estimated that approximately 509 million pounds of fish and shellfish were needed to produce the 319.6 million pounds of round, dressed, and drawn fish, fish fillets, and packaged shellfish frozen in 1960.

United States foreign trade in fishery products (imports plus exports of domestic products) was valued at \$432 million in 1961--an increase of \$27.5 million over the previous year. The value of fishery products imported for consumption was \$397 million--the highest on record. It exceeded by 8 percent the former record established in 1959 and was 10 percent above that of 1960. The value of fishery products exported was \$35 million--a decline of 21 percent from the previous year. Imports of edible products in 1961 totaled 1.1 billion pounds valued at a record high of nearly \$336 million. Compared with 1960, the volume remained about the same, but the value increased 9 percent. This gain was due to generally higher prices and changes in composition of the receipts. Major increases occurred in imports of frozen groundfish fillets and blocks, fresh and frozen shrimp, canned tuna, and canned sardines. Items imported in reduced volume

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included canned salmon, fresh or frozen sea herring, and tuna. Imports of nonedible fishery products were valued at \$61 million--16 percent more than in 1960. Gains in receipts of fish meal, sperm whale oil, and cultured pearls accounted for the increase. Edible fishery products exported in 1961 totaled 40 million pounds with a value of \$19.6 million--a decrease of 35 percent in quantity and 24 percent in value compared with the previous year. Exports of non-edible domestic products, valued at \$15 million, were 18 percent less than in 1960.

The 1961 world commercial catch of fish, crustaceans, mollusks, etc., totaled a record \$90.7 billion pounds. The catch was 8 percent greater than the 1960 production of 83.8 billion pounds and more than double the volume taken in 1938 and 1948--just before and after World War II. In 1956, the United States followed first-place Japan as a fishing nation. In 1961, it was fifth, preceded by Japan, Peru, China (Mainland), and the U.S.S.R.

There were 430 vessels documented as fishing craft in 1961, including some that were previously removed from the record, but redocumented again during 1961.

VESSELS OBTAINING DOCUMENTS AS FISHING CRAFT, 1950-61

| <u>Year</u> | <u>First Documentation</u> | <u>Redocumentation</u> | <u>Total</u> |
|----------------|----------------------------|------------------------|--------------|
| 1950 | 812 | 29 | 841 |
| 1951 | 780 | 28 | 808 |
| 1952 | 675 | 24 | 699 |
| 1953 | 729 | 25 | 754 |
| 1954 | 717 | 28 | 745 |
| 1955 | 418 | 23 | 441 |
| 1956 | 521 | 17 | 538 |
| 1957 | 601 | 18 | 619 |
| 1958 | 684 | 29 | 713 |
| 1959 | 479 | 34 | 513 |
| 1960 | 408 | 24 | 432 |
| 1961 | 410 | 20 | 430 |

In connection with compiling statistics on the fisheries for 1961, information on the age of the United States fishing fleet was assembled for the first time. The data revealed that the Chesapeake sail dredge vessels are the oldest fishing fleet in the United States, while the menhaden and shrimp fleets of the Gulf of Mexico were the newest. The figures showed that few New England otter trawl vessels had been built in recent years. The oldest of the large trawlers operating in 1961 was constructed in 1928, while the average for the entire fleet was 1940. The average medium trawler fishing North Atlantic waters was built in 1941. Small trawlers were even older--the average vessel having been built in 1938.

Forty-five percent of the total United States catch in 1961 was made by 180 menhaden vessels operating off the Atlantic and Gulf Coasts. While the menhaden fleet operating in the Gulf of Mexico is of more recent construction (the average vessel having been built in 1951), the average menhaden seiner operating in the Chesapeake Bay was built in 1915.

Detailed summaries of the catch and operating unit data for the United States have been previously published in Current Fishery Statistics No. 3142.

Summaries of operating unit and catch statistics for each region of the United States (except Mississippi River Fisheries) have been published in the Current Fishery Statistics series of bulletins. "Fisheries of the United States," a preliminary review, is available in April of each year. It contains current information on many aspects of the fisheries such as domestic and world catch, per capita consumption, price indexes, foreign trade, supplies, etc; and comparative data for previous years. This publication may be obtained free from the Office of Information, United States Fish and Wildlife Service, Washington 25, D.C.

The current statistical publications of the Bureau that contain data on the domestic fisheries are listed in Fishery Leaflet 432 "Fishery Statistical Publications of the Bureau of Commercial Fisheries." The publication also lists other Federal agencies, interstate commissions, and international and nongovernmental sources of fishery statistics. Copies of this leaflet may be obtained free from the Office of Information.

GENERAL REVIEW

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SUMMARY OF CATCH, 1961

(MILLIONS OF POUNDS AND MILLIONS OF DOLLARS)

| REGION | FISH | | SHELLFISH, ETC. | | WHALE PRODUCTS | | TOTAL | |
|--|--------------|------------|-----------------|------------|----------------|----------|--------------|------------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| NEW ENGLAND | 689 | 32 | 71 | 29 | - | - | 760 | 61 |
| MIDDLE ATLANTIC | 778 | 14 | 47 | 10 | - | - | 825 | 24 |
| CHESAPEAKE | 357 | 8 | 111 | 29 | - | - | 478 | 37 |
| SOUTH ATLANTIC | 336 | 9 | 66 | 11 | - | - | 402 | 20 |
| GULF | 1,185 | 24 | 192 | 52 | - | - | 1,377 | 76 |
| PACIFIC | 1,051 | 113 | 120 | 14 | 12 | 1 | 1,183 | 128 |
| GREAT LAKES | 71 | 7 | (1) | (1) | - | - | 71 | 7 |
| MISSISSIPPI RIVER AND TRIBUTARIES | 58 | 6 | 18 | 1 | - | - | 76 | 7 |
| HAWAII | 15 | 2 | (1) | (1) | - | - | 15 | 2 |
| TOTAL | 4,550 | 215 | 625 | 146 | 12 | 1 | 5,187 | 362 |

1/ LESS THAN 500,000 POUNDS OR \$500,000.

NOTE:--COMMERCIAL LANDINGS OF FISH (726,000 POUNDS VALUED AT \$27,246) IN ARIZONA, COLORADO, AND UTAH ARE NOT INCLUDED IN THESE TABULATIONS.

SUMMARY OF OPERATING UNITS, 1961

| ITEM | NEW ENGLAND | MIDDLE ATLANTIC | CHESAPEAKE | SOUTH ATLANTIC | GULF |
|--------------------------------------|---------------|-----------------|---------------|----------------|----------------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | |
| ON VESSELS | 4,231 | 3,021 | 3,920 | 3,721 | 10,847 |
| ON BOATS AND SHORE | 17,506 | 5,538 | 14,252 | 8,973 | 11,997 |
| TOTAL | 21,737 | 8,559 | 18,172 | 12,694 | 22,244 |
| VESSELS: | | | | | |
| MOTOR | 798 | 602 | 1,285 | 1,185 | 3,267 |
| GROSS TONNAGE | 44,242 | 31,159 | 23,290 | 41,152 | 140,456 |
| SAILED | - | - | 716 | - | - |
| GROSS TONNAGE | - | - | - | - | - |
| TOTAL VESSELS | 798 | 602 | 1,350 | 1,185 | 3,267 |
| TOTAL GROSS TONNAGE | 44,242 | 31,159 | 24,006 | 41,152 | 140,456 |
| BOATS: | | | | | |
| MOTOR | 11,155 | 3,676 | 9,228 | 5,542 | 8,571 |
| OTHER | 709 | 447 | 1,019 | 992 | 640 |
| GEAR: | | | | | |
| HAUL SEINES | 19 | 69 | 287 | 176 | 98 |
| STOP NETS AND SEINES | 114 | 5 | - | - | - |
| FURSE SEINES AND LAMPARA NETS: | | | | | |
| HERRING | 14 | - | - | - | - |
| MACKEREL | 4 | - | - | - | - |
| MENHADEN | 7 | 58 | 26 | 55 | 69 |
| TUNA | 2 | - | - | - | - |
| OTHER | 5 | 18 | - | 4 | 2 |
| BAG NETS | 9 | - | - | 15 | - |
| BEAM TRAWLS | - | 9 | - | - | - |
| OTTER TRAWLS: | | | | | |
| CRAB | - | - | - | 264 | - |
| FISH | 631 | 317 | 113 | 89 | 135 |
| LOBSTER | - | 41 | - | - | - |
| SCALLOP | - | - | - | 9 | - |
| SHRIMP | 10 | - | - | 2,413 | 7,895 |
| WEIRS | 125 | 5 | - | - | - |
| POUND NETS | 58 | 158 | 3,726 | 782 | - |
| FLOATING TRAPS | 48 | - | - | - | - |
| FYKE AND HOOP NETS | 23 | 394 | 1,970 | 315 | 15,011 |
| POTS AND TRAPS: | | | | | |
| CONCH | 873 | 50 | - | - | - |
| CRAB | 1,562 | 5,560 | 175,170 | 47,475 | 62,922 |
| CRAWFISH | - | - | - | - | 6,620 |
| EEL | 1,207 | 1,358 | 8,629 | 630 | - |
| FISH | - | 15,380 | 6,340 | 15,775 | 446 |
| LOBSTER | 884,535 | 10,563 | - | 13,360 | 38,990 |
| TURTLE | - | - | 120 | 90 | - |
| BOX TRAPS | - | - | 550 | - | - |
| SLAT TRAPS | - | - | 4 | - | - |

(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

SUMMARY OF OPERATING UNITS, 1961 - Continued

| ITEM | NEW ENGLAND | MIDDLE ATLANTIC | CHESAPEAKE | SOUTH ATLANTIC | GULF |
|----------------------------------|-------------|-----------------|---|----------------|---------------------------------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| GEAR - CONTINUED: | | | | | |
| GILL NETS: | | | | | |
| ANCHOR, SET OR STAKE | 41 | 187 | 2,902 | 3,376 | 148 |
| DRIFT | 88 | 138 | 947 | 710 | 22 |
| RUNAROUND | - | 30 | - | 512 | 1,001 |
| TRAMMEL NETS | - | - | - | 15 | 580 |
| HOOKS AND BAITS | 632,264 | 329,972 | 1,097,083 | 1,244,904 | 1,385,224 |
| DIP NETS | 647 | - | 416 | 3,125 | 20,712 |
| LIFT NETS | 1 | - | - | - | - |
| PUSH NETS | - | 12 | - | - | - |
| CAST NETS | - | - | - | 52 | 37 |
| HARPOONS | 159 | 10 | - | - | - |
| SPEARS | 10 | 28 | - | 97 | 176 |
| SCRAPES | - | - | 615 | - | - |
| DREDGES: | | | | | |
| CLAM | 51 | 115 | 318 | 21 | - |
| CRAB | - | 64 | 454 | - | - |
| MUSSEL | 11 | - | - | - | - |
| OYSTER | 26 | 113 | 899 | 242 | 1,045 |
| SCALLOP | 1,542 | 2,186 | 16 | 37 | 32 |
| TONGS AND OYSTER GRABS | 1,148 | 3,065 | 8,360 | 346 | 2,040 |
| RAKES | 1,190 | 1,932 | 727 | 283 | 6 |
| HOES | 3,261 | 50 | - | - | - |
| FORKS | 89 | - | - | - | - |
| BRUSH TRAPS | - | - | - | - | 52,300 |
| GRABS, FROG | - | - | - | - | 36 |
| HOOKS: | | | | | |
| SPONGE | - | - | - | - | 84 |
| OTHER | - | 1 | - | - | - |
| DIVING OUTFITS | 536 | - | - | - | 12 |
| | | | | | |
| ITEM | PACIFIC | GREAT LAKES | MISSISSIPPI RIVER AND TRIBUTARIES, 1960 | HAWAII | TOTAL, EXCLUSIVE OF DUPLICATION |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | |
| ON VESSELS | 15,616 | 1,347 | - | 320 | 41,055 |
| ON BOATS AND SHORE | 17,665 | 2,426 | 10,612 | 269 | 88,638 |
| TOTAL | 33,281 | 3,773 | 10,612 | 589 | 129,693 |
| VESSELS: | | | | | |
| MOTOR | 4,740 | 469 | - | 65 | 11,899 |
| GROSS TONNAGE | 138,610 | 8,309 | - | 1,908 | 400,219 |
| SAIL | - | - | - | - | 65 |
| GROSS TONNAGE | - | - | - | - | 716 |
| TOTAL VESSELS | 4,740 | 469 | - | 65 | 11,964 |
| TOTAL GROSS TONNAGE | 138,610 | 8,309 | - | 1,908 | 400,935 |
| BOATS: | | | | | |
| MOTOR | 11,977 | 1,197 | 8,663 | 195 | 60,118 |
| OTHER | 443 | 283 | 852 | 20 | 5,405 |
| GEAR: | | | | | |
| HAUL SEINES | 168 | 107 | 277 | - | 1,201 |
| STOP NETS AND SEINES | - | - | - | - | 119 |
| PURSE SEINES AND LAMPARA NETS: | | | | | |
| HERRING | 24 | - | - | - | 38 |
| MACKEREL | 100 | - | - | - | 104 |
| MENHADEN | - | - | - | - | 180 |
| SALMON | 1,446 | - | - | - | 1,446 |
| SARDINE | 87 | - | - | - | 87 |
| SQUID | 18 | - | - | - | 18 |
| TUNA | 125 | - | - | - | 128 |
| OTHER | 41 | - | - | - | 70 |
| BAG NETS | - | - | - | - | 24 |
| BEAM TRAWLS | 31 | - | - | - | 40 |
| OTTER TRAWLS: | | | | | |
| CRAB | 1 | - | - | - | 265 |
| FISH | 236 | 19 | 3 | - | 1,417 |
| LOBSTER | - | - | - | - | 41 |
| SCALLOP | - | - | - | - | 9 |
| SHRIMP | 34 | - | - | - | 9,927 |

(CONTINUED ON NEXT PAGE)

SUMMARY OF OPERATING UNITS, 1961 - Continued

| ITEM | PACIFIC | GREAT LAKES | MISSISSIPPI RIVER AND TRIBUTARIES, 1960 | HAWAII | TOTAL, EXCLUSIVE OF DUPLICATION |
|----------------------------------|-----------|-------------|---|--------|---------------------------------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| GEAR - CONTINUED: | | | | | |
| WEIRS | 1 | - | 85 | - | 216 |
| POUND NETS | 6 | 388 | 76 | - | 5,194 |
| TRAP NETS | - | 2,653 | 97 | - | 2,750 |
| FLOATING TRAPS | 11 | - | - | - | 59 |
| FYKE AND HOOP NETS | - | 203 | 54,737 | - | 72,653 |
| FOTS AND TRAPS: | | | | | |
| CONCH | - | - | - | - | 923 |
| CRAB | 100,626 | - | - | - | 393,335 |
| CRAWFISH | 635 | - | 14,435 | - | 21,690 |
| EEL | - | - | - | - | 11,824 |
| FISH | 150 | - | 8,652 | - | 44,143 |
| LOBSTER | 10,845 | - | - | - | 957,693 |
| OCTOPUS | 100 | - | - | - | 100 |
| SHRIMP | 170 | - | - | - | 170 |
| TURTLE | - | - | - | - | 760 |
| BOX TRAPS | - | - | - | - | 10 |
| SLAT TRAPS | - | - | - | - | 4 |
| GILL NETS: | | | | | |
| ANCHOR, SET OR STAKE | 2,609 | 2,685 | 6,168 | - | 18,116 |
| DRIFT | 5,077 | - | - | - | 6,982 |
| RUNAROUND | - | - | - | - | 1,541 |
| TRAMMEL NETS | 3 | - | 3,518 | - | 4,116 |
| HOOKS AND BAITS | 1,054,921 | 114,507 | 5,174,339 | - | 11,023,870 |
| DIP NETS | 271 | 6 | 676 | - | 25,853 |
| BRAIL OR SCOOP NETS | 176 | - | - | - | 176 |
| LIFT NETS | - | - | - | - | 1 |
| REEF NETS | 100 | - | - | - | 100 |
| PUSH NETS | - | - | - | - | 12 |
| WHEELS | 8 | - | - | - | 8 |
| CAST NETS | - | - | - | - | 89 |
| HARPOONS | 68 | - | - | - | 236 |
| SPEARS | - | - | - | - | 311 |
| SCRAPES | - | - | - | - | 615 |
| DREDGES: | | | | | |
| CLAM | 3 | - | - | - | 508 |
| CRAB | - | - | - | - | 518 |
| MUSSEL | - | - | - | - | 11 |
| OYSTER | 81 | - | - | - | 2,406 |
| SCALLOP | - | - | - | - | 3,789 |
| TONGS AND OYSTER GRABS | 25 | - | - | - | 14,984 |
| RAKES | - | - | - | - | 4,138 |
| HOES | - | - | - | - | 3,311 |
| FORKS | - | - | - | - | 59 |
| SHOVELS | 1,923 | - | - | - | 1,923 |
| BRUSH TRAPS | - | - | - | - | 52,300 |
| CROWFOOT BARS | - | - | 1,312 | - | 1,312 |
| GRABS, FROG | - | - | 174 | - | 210 |
| HOOBS: | | | | | |
| SPONGE | - | - | - | - | 84 |
| OTHER | - | - | - | - | 1 |
| DIVING OUTFITS | 129 | - | - | - | 677 |



GENERAL REVIEW

SUMMARY OF UNITED STATES FISHING VESSELS,
BY TONNAGE GROUPS, 1961

| GROSS TONNAGE | NEW ENGLAND | MIDDLE ATLANTIC | CHESA-PEAKE | SOUTH ATLANTIC | GULF | PACIFIC | GREAT LAKES | HAWAII | TOTAL, EXCLUSIVE OF DUBLICATION |
|-------------------------|-------------|-----------------|-------------|----------------|---------|---------|-------------|--------|---------------------------------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| 5 - 9 | 37 | 55 | 626 | 223 | 173 | 1,023 | 75 | 2 | 2,406 |
| 10 - 19 | 136 | 158 | 312 | 274 | 640 | 2,003 | 251 | 19 | 3,781 |
| 20 - 29 | 91 | 84 | 70 | 167 | 418 | 670 | 92 | 19 | 1,574 |
| 30 - 39 | 93 | 68 | 32 | 195 | 460 | 361 | 29 | 10 | 1,152 |
| 40 - 49 | 61 | 48 | 23 | 159 | 447 | 251 | 19 | 7 | 917 |
| 50 - 59 | 49 | 38 | 16 | 57 | 298 | 101 | 2 | 5 | 509 |
| 60 - 69 | 43 | 32 | 12 | 44 | 542 | 48 | - | 2 | 690 |
| 70 - 79 | 49 | 24 | 14 | 13 | 157 | 33 | 1 | 1 | 258 |
| 80 - 89 | 20 | 10 | 3 | - | 32 | 29 | - | - | 89 |
| 90 - 99 | 23 | 2 | - | 3 | 15 | 29 | - | - | 69 |
| 100 - 109 | 17 | 4 | 1 | 1 | 7 | 23 | - | - | 48 |
| 110 - 119 | 27 | 11 | 7 | 1 | 5 | 19 | - | - | 57 |
| 120 - 129 | 12 | 4 | 3 | 2 | 4 | 10 | - | - | 31 |
| 130 - 139 | 13 | 1 | 2 | - | 5 | 9 | - | - | 27 |
| 140 - 149 | 7 | 3 | 7 | 3 | 7 | 2 | - | - | 25 |
| 150 - 159 | 13 | 2 | 2 | 2 | 2 | 6 | - | - | 22 |
| 160 - 169 | 8 | 2 | 1 | - | 6 | 5 | - | - | 22 |
| 170 - 179 | 5 | 2 | - | 1 | 6 | 1 | - | - | 18 |
| 180 - 189 | 2 | 5 | 2 | 3 | 7 | 5 | - | - | 21 |
| 190 - 199 | 6 | 31 | 4 | 12 | 11 | 17 | - | - | 67 |
| 200 - 209 | 1 | - | - | - | - | 1 | - | - | 2 |
| 210 - 219 | 3 | - | - | - | 1 | 2 | - | - | 6 |
| 220 - 229 | 3 | 4 | 1 | 3 | 3 | 2 | - | - | 13 |
| 230 - 239 | 1 | 1 | 1 | 2 | 4 | 5 | - | - | 12 |
| 240 - 249 | 3 | 1 | 1 | 4 | 1 | - | - | - | 10 |
| 250 - 259 | 3 | - | - | 7 | 3 | 4 | - | - | 14 |
| 260 - 269 | 2 | - | 3 | 4 | 2 | 3 | - | - | 13 |
| 270 - 279 | - | - | - | - | - | 4 | - | - | 4 |
| 280 - 289 | - | 3 | 1 | 2 | - | - | - | - | 3 |
| 290 - 299 | 2 | 1 | 1 | 1 | 1 | 2 | - | - | 7 |
| 300 - 309 | 2 | 2 | - | 1 | - | 2 | - | - | 6 |
| 310 - 319 | 2 | 1 | - | - | 1 | 4 | - | - | 8 |
| 320 - 329 | 2 | - | 1 | - | - | 2 | - | - | 5 |
| 330 - 339 | - | - | - | - | - | 2 | - | - | 2 |
| 340 - 349 | - | - | - | - | - | 2 | - | - | 2 |
| 350 - 359 | - | - | - | - | - | 7 | - | - | 7 |
| 360 - 369 | - | - | - | - | - | 7 | - | - | 7 |
| 370 - 379 | - | - | 1 | - | - | 12 | - | - | 13 |
| 380 - 389 | - | - | - | - | - | 4 | - | - | 4 |
| 390 - 399 | - | - | 1 | 1 | - | 1 | - | - | 2 |
| 400 - 409 | - | - | - | - | - | 1 | - | - | 1 |
| 410 - 419 | - | - | - | - | 1 | 3 | - | - | 3 |
| 420 - 429 | - | - | - | - | - | 3 | - | - | 3 |
| 430 - 439 | - | - | - | - | - | 6 | - | - | 6 |
| 440 - 449 | - | - | - | - | - | 5 | - | - | 5 |
| 450 - 459 | - | - | - | - | - | 1 | - | - | 1 |
| 460 - 469 | - | - | - | - | 1 | 2 | - | - | 3 |
| 470 - 479 | - | - | - | - | 5 | 3 | - | - | 8 |
| 480 - 489 | - | - | - | - | - | 2 | - | - | 2 |
| 490 - 499 | - | - | - | - | - | 1 | - | - | 1 |
| 570 - 579 | - | - | - | - | - | 1 | - | - | 1 |
| 610 - 619 | - | - | - | - | 1 | - | - | - | 1 |
| 640 - 649 | - | - | - | - | 1 | - | - | - | 1 |
| 700 - 709 | - | - | - | - | - | 1 | - | - | 1 |
| TOTAL VESSELS | 738 | 602 | 1,350 | 1,185 | 3,267 | 4,740 | 469 | 65 | 11,964 |
| TOTAL GROSS TONNAGE | 44,242 | 31,159 | 24,006 | 41,152 | 140,456 | 138,610 | 8,309 | 1,908 | 400,935 |

GENERAL REVIEW

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UNITED STATES - CATCH BY REGION, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | NEW ENGLAND | | MIDDLE ATLANTIC | | CHESAPEAKE | | SOUTH ATLANTIC | | GULF | |
|-----------------------------|-------------|-------|-----------------|-------|------------|-------|----------------|--------|-----------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| ALBIES | 22,611 | 219 | 51 | (2) 2 | 17,970 | 322 | 11,953 | (2) 20 | 281 | (2) 11 |
| AMBERJACK | - | - | - | - | - | - | - | - | - | - |
| ANCHOVIES | 71 | 7 | - | - | - | - | - | - | - | - |
| ANGLERFISH | 9 | (2) | 23 | 1 | - | - | - | - | - | - |
| BALLYHOO | - | - | - | - | - | - | 3 | (2) | 62 | 9 |
| BARRACUDA | - | - | - | - | - | - | 1 | (2) | 8 | (2) |
| BLUEFISH | 78 | 13 | 957 | 194 | 313 | 47 | 1,732 | 187 | 648 | 71 |
| BLUE RUNNER | - | - | - | - | - | - | 39 | 3 | 949 | 40 |
| BONITO | 46 | 6 | 68 | 8 | 23 | 3 | (2) | (2) | (2) | (2) |
| BOWFIN | - | - | - | - | 1 | (2) | 5 | 7 | 7 | 7 |
| BUFFALOFISH | - | - | - | - | - | - | - | - | 808 | 95 |
| BUTTERFISH | 4,159 | 432 | 4,047 | 337 | 1,670 | 144 | 349 | 35 | - | 2 |
| CABIO | - | - | - | - | 21 | 2 | 25 | 2 | - | - |
| CARP | 3 | (2) | 244 | 12 | 848 | 28 | 161 | 5 | 15 | 1 |
| CATFISH AND BULLHEADS | - | - | 32 | 3 | 2,908 | 189 | 14,254 | 1,899 | 6,561 | 1,352 |
| CIGARFISH | - | - | - | - | - | - | - | - | 323 | 23 |
| COJ | 42,169 | 2,581 | 3,603 | 340 | 619 | 74 | - | - | - | - |
| CRAPPIE | - | - | - | - | 2 | (2) | - | - | - | - |
| CREVALLE | - | - | - | - | - | - | 88 | 3 | 535 | 15 |
| CROAKER | - | - | - | - | - | - | - | - | 77 | 5 |
| CUNNER | (2) | (2) | 57 | 15 | 3,131 | 579 | 1,910 | 163 | - | - |
| CUSK | 1,905 | 101 | - | - | - | - | - | - | - | - |
| DOLPHIN | - | - | - | - | - | - | 7 | 1 | 24 | 1 |
| DRUM: | | | | | | | | | | |
| BLACK | - | - | 2 | (2) | 249 | 11 | 143 | 10 | 2,123 | 159 |
| RED | - | - | - | - | 12 | 1 | 207 | 23 | 2,208 | 346 |
| EELS: | | | | | | | | | | |
| COMMON | 115 | 24 | 249 | 36 | 384 | 43 | 58 | 2 | - | - |
| CONGER | 5 | (2) | 9 | (2) | - | - | - | - | - | - |
| FLOUNDERS | 67,155 | 6,958 | 12,573 | 1,701 | 2,783 | 468 | 2,198 | 279 | 679 | 117 |
| GARFISH | - | - | - | - | - | - | - | - | 317 | 17 |
| GIZZARD SHAD | - | - | - | - | 113 | 1 | - | - | - | - |
| GROUPE | - | - | - | - | - | - | 264 | 28 | 6,798 | 694 |
| GRUNTS | - | - | 1 | (2) | - | - | 47 | 3 | 85 | 5 |
| HADDOCK | 133,536 | 9,901 | 61 | 6 | (2) | (2) | - | - | - | - |
| HAKE: | | | | | | | | | | |
| RED | 7,227 | 88 | 1,519 | 35 | 27 | (2) | - | - | - | - |
| WHITE | 5,104 | 211 | 102 | 5 | 8 | 1 | - | - | - | - |
| HALIBUT | 285 | 80 | - | - | - | - | - | - | - | - |
| HARVESTFISH | - | - | - | - | 254 | 24 | 41 | 3 | - | - |
| HERRING: | | | | | | | | | | |
| SEA | 57,856 | 1,096 | 376 | 6 | 11 | (2) | - | - | - | - |
| THREAD | - | - | - | - | - | - | 4,128 | 45 | - | - |
| HICKORY SHAD | - | - | - | - | 70 | 4 | 280 | 14 | - | - |
| HOGCHOKER | - | - | - | - | 17 | (2) | - | - | - | - |
| HOGFISH | - | - | - | - | - | - | 2 | (2) | 35 | 5 |
| JEWFISH | - | - | - | - | - | - | 17 | 1 | 85 | 7 |
| KING MACKEREL | 2 | (2) | - | - | 18 | 3 | 2,120 | 279 | 1,683 | 175 |
| KING WHITING OR "KING-FISH" | 1 | (2) | 27 | 4 | 209 | 17 | 3,144 | 291 | 1,164 | 64 |
| LAMPREY | - | - | - | - | - | - | - | - | - | - |
| LANCE | 194 | 11 | - | - | - | - | - | - | - | - |
| LANIGE | 327 | 327 | 330 | 54 | 406 | 64 | - | - | - | - |
| MACKEREL | 2,276 | 37 | 330 | 54 | 406 | 64 | - | - | - | - |
| MENHADEN | 26,011 | 223 | 715,049 | 7,930 | 298,679 | 3,146 | 254,505 | 2,688 | 1,020,433 | 11,592 |
| MINNOWS | - | - | 1 | 1 | - | - | - | - | 76 | 4 |
| MOJARRA | - | - | - | - | - | - | 146 | 13 | 34,830 | 1,912 |
| MULLET | - | - | 20 | 4 | 33 | 3 | 7,863 | 570 | - | - |
| OCEAN PERCH, ATLANTIC | 132,062 | 5,114 | - | - | - | - | - | - | - | - |
| PADDLEFISH | - | - | - | - | - | - | (2) | (2) | 12 | 1 |
| PERMIT | - | - | - | - | - | - | - | - | 20 | 2 |
| PIGFISH | - | - | - | - | 2 | (2) | 231 | 13 | 4 | (2) |
| PIKE OR PICKEREL | - | - | - | - | 2 | (2) | (2) | (2) | - | - |
| POLLOCK | 21,399 | 795 | 7 | (2) | (2) | (2) | 221 | 138 | 542 | 381 |
| POMPANO | - | - | - | - | (2) | (2) | - | - | - | - |
| SALMON, ATLANTIC | (2) | (2) | - | - | - | - | - | - | - | - |
| SAND PERCH | - | - | - | - | (2) | (2) | 18 | 1 | - | - |
| SAWFISH | - | - | - | - | - | - | - | - | 6 | (2) |
| SCUP OR PORGY | 9,186 | 459 | 25,742 | 1,790 | 11,355 | 659 | 253 | 20 | 48 | 3 |
| SEA BASS, BLACK (ATLANTIC) | 263 | 51 | 1,810 | 350 | 3,349 | 553 | 983 | 136 | - | - |
| SEA CATFISH | - | - | 9 | (2) | - | - | 18 | - | 373 | 22 |
| SEA ROBIN | 213 | 4 | - | - | - | - | - | - | - | - |
| SEA TROUT OR WEAKFISH: | | | | | | | | | | |
| GRAY | 3 | (2) | 605 | 81 | 1,473 | 188 | 2,390 | 134 | - | - |
| SPOTTED | - | - | - | - | 74 | 15 | 1,017 | 245 | 4,289 | 1,023 |
| WHITE | - | - | - | - | - | - | - | - | 436 | 33 |
| SHAD | 547 | 80 | 1,026 | 169 | 3,144 | 511 | 1,612 | 366 | - | - |

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

UNITED STATES - CATCH BY REGION, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | NEW ENGLAND | | MIDDLE ATLANTIC | | CHESAPEAKE | | SOUTH ATLANTIC | | GULF | |
|--|-------------|--------|-----------------|--------|------------|-------|----------------|-------|-----------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH - CONTINUED | | | | | | | | | | |
| SHARKS: | | | | | | | | | | |
| GRAY FISH | 970 | 6 | 70 | 3 | 463 | 14 | - | - | - | - |
| UNCLASSIFIED | 39 | 2 | 10 | (2) | 42 | 1 | 24 | 2 | 689 | 12 |
| TOTAL SHARKS | 1,009 | 8 | 80 | 3 | 505 | 15 | 24 | 2 | 689 | 12 |
| SHEEPSHEAD: | | | | | | | | | | |
| FRESH-WATER | - | - | - | - | - | - | - | - | 574 | 57 |
| SALT-WATER | - | (2) | (2) | (2) | - | - | 79 | 6 | 330 | 24 |
| SILVERSIDES | 1 | (2) | 189 | 20 | - | - | - | - | - | - |
| SKATES | 44 | 1 | 33 | 1 | 2 | (2) | - | - | - | - |
| SMELT | 139 | 41 | - | - | - | - | - | - | - | - |
| SNAPPER: | | | | | | | | | | |
| HANGROVE | - | - | - | - | - | - | 52 | 10 | 262 | 40 |
| MUTTON | - | - | - | - | - | - | 46 | 10 | 90 | 18 |
| RED | - | - | - | - | - | - | 800 | 205 | 11,888 | 3,061 |
| VERMILION | - | - | - | - | - | - | 45 | 6 | 22 | 4 |
| YELLOWTAIL | - | - | - | - | - | - | 95 | 23 | 640 | 141 |
| SPADEFISH | - | - | - | - | 1 | (2) | - | - | - | - |
| SPANISH HACKREL | (2) | (2) | - | - | 123 | 20 | 3,296 | 346 | 4,014 | 386 |
| SPANISH SARDINE | - | - | - | - | - | - | - | - | 36 | 1 |
| SPOT | - | - | - | - | 1,194 | 116 | 6,453 | 430 | 264 | 14 |
| STRIPED BASS | 397 | 67 | 1,252 | 209 | 7,262 | 902 | 551 | 88 | - | - |
| STURGEON, COMMON | 16 | 1 | 25 | 5 | 25 | 6 | 95 | 16 | 18 | 2 |
| SUCKERS | 5 | (2) | 1 | (2) | 7 | (2) | - | - | - | - |
| SUNFISH | - | - | 566 | 21 | 6 | 1 | - | - | - | - |
| SWELLFISH | - | - | 72 | 34 | 1,160 | 29 | 294 | 9 | - | - |
| SWORDFISH | 829 | 320 | 46 | 2 | 3 | (2) | - | - | - | - |
| TAUTOG | 94 | 4 | - | - | - | - | - | - | - | - |
| TENPOUNDER | - | - | - | - | - | - | 2 | (2) | 390 | 13 |
| TILEFISH | 642 | 61 | 184 | 19 | 29 | 3 | - | - | 1 | (2) |
| TOMCOD | - | - | 1 | (2) | - | - | - | - | - | - |
| TRIGGERFISH | - | - | - | - | - | - | 3 | (2) | 6 | (2) |
| TRIPLETAIL | - | - | - | - | - | - | 11 | 1 | 4 | (2) |
| TUNA: | | | | | | | | | | |
| BLUEFIN | 2,353 | 131 | 15 | 2 | (2) | (2) | - | 1 | (2) | - |
| LITTLE | - | - | 2 | (2) | - | - | - | - | - | - |
| TOTAL TUNA | 2,353 | 131 | 17 | 2 | (2) | (2) | 1 | (2) | - | - |
| WARSAW: | | | | | | | | | | |
| WHITE PERCH | 8 | - | 116 | 14 | 1,750 | 130 | 346 | 35 | 223 | 15 |
| WHITING | 93,945 | 1,996 | 6,308 | 235 | 473 | 14 | 3 | (2) | - | - |
| WOLFFISH | 643 | 39 | - | - | - | - | - | - | - | - |
| YELLOW PERCH | - | - | (2) | (2) | 91 | 9 | 40 | 2 | - | - |
| UNCLASSIFIED: | | | | | | | | | | |
| FOR FOOD | 6,044 | 381 | 305 | 29 | 96 | 7 | 280 | 19 | 1,027 | 74 |
| BAIT, REDUCTION, AND ANIMAL FOOD | 48,745 | 272 | 549 | 6 | 4,222 | 35 | 11,118 | 88 | 78,375 | 1,338 |
| TOTAL FISH | 689,406 | 32,104 | 778,355 | 13,684 | 367,327 | 8,387 | 336,082 | 9,017 | 1,185,433 | 23,387 |
| SHELLFISH, ETC.: | | | | | | | | | | |
| CRABS: | | | | | | | | | | |
| BLUE: | | | | | | | | | | |
| HARD | 4 | 1 | 1,406 | 119 | 70,634 | 3,411 | 40,350 | 1,589 | 35,258 | 1,617 |
| SOFT AND PEELER | - | - | 111 | 26 | 4,200 | 1,036 | 101 | 35 | 634 | 315 |
| GREEN | 126 | 11 | - | - | - | - | - | - | - | - |
| ROCK | 1,900 | 88 | 44 | 2 | - | - | - | - | - | - |
| STONE | - | - | - | - | - | - | 25 | 9 | 453 | 156 |
| TOTAL CRABS | 2,030 | 100 | 1,561 | 147 | 74,894 | 4,447 | 40,476 | 1,633 | 36,345 | 2,088 |
| CRAWFISH, FRESH-WATER: | | | | | | | | | | |
| HORSESHOE CRABS | - | - | 1,110 | 8 | - | - | - | - | 1,018 | 148 |
| LOBSTERS: | | | | | | | | | | |
| NORTHERN | 25,931 | 13,767 | 2,051 | 798 | 16 | 7 | - | - | - | - |
| SPINY | - | - | - | - | - | - | 702 | 249 | 2,101 | 721 |
| SHRIMP | 68 | 14 | 6 | 6 | - | - | 19,749 | 6,939 | 133,795 | 43,650 |
| CLAMS: | | | | | | | | | | |
| HARD | 4,705 | 2,127 | 6,560 | 3,457 | 2,318 | 1,062 | 603 | 236 | 15 | 5 |
| OCEAN QUAHOG | 124 | 12 | - | - | - | - | - | - | - | - |
| RAZOR | 25 | 8 | 14 | 3 | - | - | - | - | - | - |
| SOFT | 2,504 | 1,249 | 164 | 47 | 4,695 | 1,232 | - | - | - | - |
| SURF | 12 | 2 | 27,419 | 1,758 | 71 | 6 | - | - | - | - |
| TOTAL CLAMS | 7,370 | 3,398 | 34,157 | 5,265 | 7,084 | 2,320 | 603 | 236 | 15 | 5 |
| CONCHS | | | | | | | | | | |
| MUSSELS, SEA | 117 | 20 | 224 | 30 | 201 | 16 | (2) | (2) | 1 | (2) |
| | 615 | 48 | 18 | 2 | - | - | - | - | - | - |

SEE FOOTNOTES AT END OF TABLE.

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GENERAL REVIEW

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UNITED STATES - CATCH BY REGION, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | NEW ENGLAND | | MIDDLE ATLANTIC | | CHESAPEAKE | | SOUTH ATLANTIC | | GULF | |
|---------------------------|-------------|--------|-----------------|--------|------------|--------|----------------|--------|-----------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| SHELLFISH, ETC.-CONT'D. | | | | | | | | | | |
| OCTOPUS | - | - | - | - | - | - | (2) | (2) | - | - |
| OYSTERS, MARKET, EASTERN: | | | | | | | | | | |
| PUBLIC | 57 | 51 | 13 | 15 | 12,137 | 9,313 | 1,132 | 566 | 7,747 | 2,209 |
| PRIVATE | 396 | 474 | 1,908 | 2,006 | 15,363 | 12,421 | 2,852 | 1,213 | 10,493 | 2,916 |
| TOTAL OYSTERS . . . | 453 | 525 | 1,921 | 2,021 | 27,500 | 21,734 | 3,984 | 1,779 | 18,240 | 5,125 |
| PERIWINKLES AND COCKLES | | | | | | | | | | |
| SCALLOPS: | | | | | | | | | | |
| BAY | 704 | 671 | 862 | 621 | - | - | 106 | 42 | 36 | 14 |
| CALICO | - | - | - | - | - | - | 26 | 10 | - | - |
| SEA | 23,775 | 9,035 | 3,368 | 1,238 | 318 | 131 | - | - | - | - |
| SQUID | 1,221 | 105 | 1,766 | 127 | 349 | 18 | 30 | 3 | 31 | 2 |
| SEA URCHINS | - | - | - | - | - | - | - | - | - | - |
| TERRAPIN | - | - | - | - | 17 | 7 | - | - | - | - |
| TURTLES: | | | | | | | | | | |
| BABY | - | - | - | - | - | - | - | - | 1 | 4 |
| GREEN | - | - | - | - | - | - | - | - | 36 | 6 |
| LOGGHEAD | - | - | 1 | (2) | 1 | (2) | 1 | (2) | 3 | (2) |
| SNAPPER | - | - | 40 | 4 | 199 | 26 | 29 | 5 | 15 | 2 |
| SOFT-SHELL | - | - | - | - | - | - | 458 | 23 | - | - |
| UNCLASSIFIED | - | - | 1 | (2) | - | - | - | - | - | - |
| TOTAL TURTLES . . . | - | - | 42 | 4 | 200 | 26 | 488 | 28 | 55 | 12 |
| FROGS | - | - | - | - | - | - | - | - | 5 | 2 |
| IRISH MOSS | 6,995 | 114 | - | - | - | - | - | - | - | - |
| SPONGES | - | - | - | - | - | - | - | - | 37 | 367 |
| BLOODWORMS | 600 | 521 | - | - | - | - | - | - | - | - |
| SANDWORMS | 685 | 424 | - | - | - | - | - | - | - | - |
| TOTAL SHELLFISH, ETC. | 70,672 | 28,754 | 47,088 | 10,268 | 110,579 | 28,706 | 66,164 | 10,919 | 191,679 | 52,134 |
| GRAND TOTAL | 760,078 | 60,858 | 825,443 | 23,952 | 477,906 | 37,093 | 402,246 | 19,936 | 1,377,112 | 75,521 |

| SPECIES | PACIFIC | | GREAT LAKES | | MISSISSIPPI RIVER AND TRIBUTARIES 1/ | | HAWAII | | TOTAL | |
|-----------------------|----------|-------|-------------|-------|--------------------------------------|-------|----------|-------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH | | | | | | | | | | |
| ALEWIVES | - | - | 3,211 | 42 | - | - | - | - | 56,077 | 716 |
| AMBERJACK | - | - | - | - | - | - | 72 | 21 | 85 | 21 |
| ANCHOVIES | 7,712 | 110 | - | - | - | - | - | - | 7,783 | 117 |
| ANGLERFISH | - | - | - | - | - | - | - | - | 32 | 1 |
| BALLYHOO | - | - | - | - | - | - | - | - | 65 | 9 |
| BARRACUDA | 709 | 107 | - | - | - | - | 8 | 3 | 726 | 110 |
| BLUEFISH | - | - | - | - | - | - | - | - | 3,736 | 512 |
| BLUE PIKE | - | - | 3 | 1 | - | - | - | - | 3 | 1 |
| BLUE RUNNER | - | - | - | - | - | - | - | - | 988 | 43 |
| BONITO | 8,513 | 218 | - | - | - | - | - | - | 8,653 | 235 |
| BOWFIN | - | - | - | (2) | 71 | 2 | - | - | 88 | 2 |
| BUFFALOFISH | - | - | 19 | 2 | 14,996 | 1,740 | - | - | 15,823 | 1,837 |
| BUREBOT | - | - | 456 | 14 | 63 | 1 | - | - | 519 | 15 |
| BUTTERFISH | - | - | - | - | - | - | - | - | 10,225 | 948 |
| CABEZONE | 5 | (2) | - | - | - | - | - | - | 5 | (2) |
| CABO | - | - | - | - | - | - | - | - | 75 | 6 |
| CABRILLA | 11 | 2 | - | - | - | - | - | - | 11 | 2 |
| CARP | 1,137 | 25 | 8,027 | 297 | 20,466 | 730 | - | - | 30,901 | 1,096 |
| CATFISH AND BULLHEADS | - | - | 2,088 | 451 | 12,625 | 2,448 | - | - | 36,468 | 6,352 |
| CHUBS | - | - | 16,516 | 2,128 | - | - | - | - | 16,516 | 2,128 |
| CIGARFISH | - | - | - | - | - | - | - | - | 323 | 23 |
| CISCO | - | - | 9 | 3 | - | - | - | - | 9 | 3 |
| COD | 3,067 | 150 | - | - | - | - | - | - | 49,658 | 3,145 |
| CRAPPIE | - | - | 3 | 1 | 61 | 11 | - | - | 66 | 12 |
| CREVALLE | - | - | - | - | - | - | 76 | 35 | 699 | 752 |
| CROAKER | - | - | - | - | - | - | - | - | 5,175 | 52 |
| CUNNER | - | - | - | - | - | - | - | - | (2) | (2) |
| CUSK | - | - | - | - | - | - | - | - | 1,505 | 101 |
| DOLLY VARDEN TROUT . | 12 | 1 | - | - | - | - | - | - | 12 | 1 |
| DOLPHIN | - | - | - | - | - | - | 116 | 48 | 147 | 50 |
| DRUM: | | | | | | | | | | |
| BLACK | - | - | - | - | - | - | - | - | 2,517 | 180 |
| RED | - | - | - | - | - | - | - | - | 2,427 | 370 |
| EELS: | | | | | | | | | | |
| COMMON | - | - | 30 | 5 | (2) | (2) | - | - | 836 | 110 |
| CONGER | - | - | - | - | - | - | - | - | 20 | 1 |

SEE FOOTNOTES AT END OF TABLE.

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GENERAL REVIEW

UNITED STATES - CATCH BY REGION, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | PACIFIC | | GREAT LAKES | | MISSISSIPPI RIVER AND TRIBUTARIES 1/ | | HAWAII | | TOTAL | |
|---------------------------------------|----------|--------|-------------|-------|--------------------------------------|-------|----------|-------|-----------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH - CONTINUED | | | | | | | | | | |
| FLOUNDERS | 47,723 | 3,140 | - | - | - | - | - | - | 133,111 | 12,663 |
| FLYING FISH | 33 | 4 | - | - | - | - | - | - | 33 | 4 |
| GARFISH | - | - | (2) | (2) | 826 | 40 | - | - | 1,143 | 57 |
| GIZZARD SHAD. | - | - | 10 | (2) | - | - | - | - | 123 | 72 |
| GOATFISH. | - | - | - | - | - | - | 135 | 72 | 293 | 9 |
| GOLDFISH. | 202 | 43 | 293 | 9 | - | - | - | - | 7,264 | 765 |
| GROUPERS. | - | - | - | - | - | - | - | - | 133 | 8 |
| GRUNTS. | - | - | - | - | - | - | - | - | 133 | 8 |
| HADDOCK. | - | - | - | - | - | - | - | - | 133,597 | 9,907 |
| HAKE: | | | | | | | | | | |
| PACIFIC | 219 | 2 | - | - | - | - | - | - | 219 | 2 |
| RED | - | - | - | - | - | - | - | - | 6,773 | 123 |
| WHITE | - | - | - | - | - | - | - | - | 5,214 | 217 |
| HALFMOON | 6 | 1 | - | - | - | - | - | - | 6 | 1 |
| HALIBUT | 53,238 | 8,406 | - | - | - | - | - | - | 53,523 | 8,488 |
| HARDHEAD. | 99 | 20 | - | - | - | - | - | - | 99 | 20 |
| HARVESTFISH | - | - | - | - | - | - | - | - | 295 | 27 |
| HERRING: | | | | | | | | | | |
| LAKE. | - | - | 11,702 | 653 | - | - | - | - | 11,702 | 653 |
| SEA | 54,491 | 730 | - | - | - | - | - | - | 112,734 | 1,832 |
| THREAD | - | - | - | - | - | - | - | - | 4,128 | 45 |
| HICKORY SHAD. | - | - | - | - | - | - | - | - | 350 | 18 |
| HOGCHOKER | - | - | - | - | - | - | - | - | 17 | (2) |
| HOGFISH | - | - | - | - | - | - | - | - | 37 | 5 |
| JACK MACKEREL | 97,606 | 2,025 | - | - | - | - | 204 | 84 | 97,810 | 2,109 |
| JEWFISH | - | - | - | - | - | - | - | - | 102 | 8 |
| KING CROAKER. | 889 | 39 | - | - | - | - | - | - | 889 | 39 |
| KING MACKEREL | - | - | - | - | - | - | - | - | 3,823 | 457 |
| KING WHITING OR "KING-FISH" | - | - | - | - | - | - | - | - | 4,545 | 376 |
| LAKE TROUT. | - | - | 328 | 199 | - | - | - | - | 328 | 199 |
| LAMPREY | - | - | - | - | - | - | - | - | 1 | (2) |
| LAUNCE. | - | - | - | - | - | - | - | - | 194 | 11 |
| LINGCOD | 7,999 | 428 | - | - | - | - | - | - | 7,999 | 428 |
| MACKEREL. | 44,110 | 956 | - | - | - | - | - | - | 47,122 | 1,401 |
| MARLIN. | - | - | - | - | - | - | 518 | 144 | 518 | 144 |
| MENHADEN. | - | - | - | - | - | - | - | - | 2,314,677 | 25,579 |
| MINNOWS | - | - | - | - | - | - | - | - | 1 | 1 |
| MOJARRA. | - | - | - | - | - | - | - | - | 222 | 17 |
| MOONEYE | - | - | 2 | (2) | 17 | 1 | - | - | 19 | 1 |
| MULLET. | - | - | - | - | - | - | 67 | 59 | 42,813 | 2,548 |
| OCEAN PERCH: | | | | | | | | | | |
| ATLANTIC | - | - | - | - | - | - | - | - | 132,062 | 5,114 |
| PACIFIC | 12,443 | 594 | - | - | - | - | - | - | 12,443 | 594 |
| OPALYE | 2 | (2) | - | - | - | - | - | - | 2 | 2 |
| PADDLEFISH. | - | - | - | - | 743 | 96 | - | - | 755 | 97 |
| PERCH | 299 | 41 | - | - | - | - | - | - | 299 | 41 |
| PERMIT. | - | - | - | - | - | - | - | - | 20 | 2 |
| PIGFISH. | - | - | - | - | - | - | - | - | 237 | 13 |
| PIKE OR PICKEREL | - | - | 298 | 44 | 6 | (2) | - | - | 306 | 44 |
| POLLOCK | - | - | - | - | - | - | - | - | 21,406 | 795 |
| POMPANO | 11 | 3 | - | - | - | - | - | - | 774 | 522 |
| QUILLBACK | - | - | 8 | (2) | 300 | 9 | - | - | 308 | 9 |
| RATFISH | 1,130 | 8 | - | - | - | - | - | - | 1,130 | 8 |
| ROCK BASS | 3 | 1 | 18 | 2 | - | - | - | - | 21 | 3 |
| ROCKFISHES. | 24,882 | 1,137 | - | - | - | - | - | - | 24,882 | 1,137 |
| RUDDERFISH. | - | - | - | - | - | - | 7 | 3 | 7 | 3 |
| SABLEFISH | 6,704 | 693 | - | - | - | - | - | - | 6,704 | 693 |
| SALMON: | | | | | | | | | | |
| ATLANTIC. | - | - | - | - | - | - | - | - | (2) | (2) |
| CHINOOK OR KING | 26,962 | 10,963 | - | - | - | - | - | - | 26,962 | 10,963 |
| CHUM OR KETA. | 48,139 | 4,254 | - | - | - | - | - | - | 48,139 | 4,254 |
| PINK. | 108,452 | 10,951 | - | - | - | - | - | - | 108,452 | 10,951 |
| RED OR SOCKEYE. | 103,644 | 20,324 | - | - | - | - | - | - | 103,644 | 20,324 |
| SILVER OR COHO. | 23,201 | 5,535 | - | - | - | - | - | - | 23,201 | 5,535 |
| TOTAL SALMON. | 310,398 | 52,027 | - | - | - | - | - | - | 310,398 | 52,027 |
| SAND PERCH. | - | - | - | - | - | - | - | - | 18 | 1 |
| SARDINE, PACIFIC. | 43,169 | 1,146 | 95 | 9 | - | - | 1 | (2) | 43,170 | 1,146 |
| SAUGER. | - | - | - | - | - | - | - | - | 95 | 9 |
| SAWFISH | - | - | - | - | - | - | - | - | 6 | (2) |
| SCULPIN. | 27 | 7 | - | - | - | - | - | - | 27 | 7 |
| SCUP OR PORGY | - | - | - | - | - | - | - | - | 46,584 | 2,931 |
| SEA BASS: | | | | | | | | | | |
| BLACK (ATLANTIC). | - | - | - | - | - | - | - | - | 6,405 | 1,090 |
| BLACK (PACIFIC). | 340 | 56 | - | - | - | - | 19 | 10 | 359 | 56 |
| WHITE | 695 | 217 | - | - | - | - | - | - | 695 | 217 |
| SEA CATFISH | - | - | - | - | - | - | - | - | 391 | 23 |
| SEA ROBIN | - | - | - | - | - | - | - | - | 222 | 4 |

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UNITED STATES - CATCH BY REGION, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | PACIFIC | | GREAT LAKES | | MISSISSIPPI RIVER AND TRIBUTARIES 1/ | | HAWAII | | TOTAL | |
|--|-----------|---------|-------------|-------|--------------------------------------|-------|----------|----------|-----------|---------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH - CONTINUED | | | | | | | | | | |
| SEA TROUT OR WEAKFISH: | | | | | | | | | | |
| GRAY | - | - | - | - | - | - | - | - | 4,471 | 403 |
| SPOTTED | - | - | - | - | - | - | - | - | 5,360 | 1,263 |
| WHITE | - | - | - | - | - | - | - | - | 436 | 33 |
| SHAD | 927 | 117 | - | - | - | - | - | - | 7,256 | 1,243 |
| SHARKS: | | | | | | | | | | |
| GRAYFISH | 841 | 4 | - | - | - | - | - | - | 2,344 | 27 |
| SOUPFIN | 1 | (2) | - | - | - | - | - | - | 1 | (2) |
| UNCLASSIFIED | 624 | 60 | - | - | - | - | - | - | 1,428 | 77 |
| TOTAL SHARKS | 1,466 | 64 | - | - | - | - | - | - | 3,773 | 104 |
| SHEEPSHEAD: | | | | | | | | | | |
| FRESH-WATER | - | - | 5,798 | 117 | 6,119 | 349 | - | - | 12,911 | 523 |
| SALT-WATER | 13 | 1 | - | - | - | - | - | - | 422 | 31 |
| SIERRA | 1 | (2) | - | - | - | - | - | - | 1 | (2) |
| SILVERSIDES | - | - | - | - | - | - | - | - | 190 | 20 |
| SKATES | 1,230 | 14 | - | - | - | - | - | - | 1,309 | 16 |
| SMELT | 1,804 | 193 | 3,540 | 134 | 1 | (2) | - | - | 5,484 | 368 |
| SNAPPER: | | | | | | | | | | |
| MANGROVE | - | - | - | - | - | - | - | - | 314 | 20 |
| MUTTON | - | - | - | - | - | - | - | - | 136 | 58 |
| RED | - | - | - | - | - | - | - | - | 12,688 | 3,266 |
| VERMILION | - | - | - | - | - | - | - | - | 67 | 10 |
| YELLOWTAIL | - | - | - | - | - | - | - | - | 735 | 164 |
| UNCLASSIFIED | - | - | - | - | - | - | 207 | 120 | 207 | 120 |
| SPADEFISH | - | - | - | - | - | - | - | - | 3 | (2) |
| SPANISH MACKEREL | - | - | - | - | - | - | - | - | 7,433 | 752 |
| SPANISH SARDINE | - | - | - | - | - | - | - | - | 36 | 1 |
| SPLITTAIL | 1 | (2) | - | - | - | - | - | - | 1 | (2) |
| SPOT | - | - | - | - | - | - | 1 | (2) | 7,911 | 360 |
| STEELHEAD TROUT | 925 | 240 | - | - | - | - | - | - | 925 | 240 |
| STRIPED BASS | 33 | 4 | - | - | - | - | - | - | 9,495 | 1,270 |
| STURGEON: | | | | | | | | | | |
| COMMON | 538 | 73 | 5 | 5 | - | - | - | - | 722 | 108 |
| SHOVELNOSE | - | - | - | - | 53 | 9 | - | - | 53 | 9 |
| SUCKERS | 27 | (2) | 1,695 | 69 | 590 | 13 | - | - | 2,325 | 62 |
| SUNFISH | - | - | 19 | 2 | - | - | - | - | 25 | 5 |
| SWELLFISH | - | - | - | - | - | - | - | - | 2,020 | 59 |
| SWORDFISH | 369 | 162 | - | - | - | - | 23 | 4 | 1,293 | 520 |
| TAUTOG | - | - | - | - | - | - | - | - | 143 | 6 |
| TENPOUNDER | - | - | - | - | - | - | 2 | 1 | 394 | 14 |
| TILEFISH | - | - | - | - | - | - | - | - | 856 | 83 |
| TOMCOD | 58 | 1 | - | - | - | - | - | - | 59 | 13 |
| TRIGGERFISH | - | - | - | - | - | - | 1 | (2) | 10 | (2) |
| TRIPLETAIL | - | - | - | - | - | - | - | - | 15 | 1 |
| TULLIBEE | - | - | 2,196 | 64 | - | - | - | - | 2,196 | 64 |
| TUNA: | | | | | | | | | | |
| ALBACORE | 32,830 | 5,863 | - | - | - | - | 14 | 4 | 32,844 | 5,867 |
| BLUEFIN | 20,883 | 2,705 | - | - | - | - | 3/1,037 | 3/24,289 | 3/3,346 | 3/3,346 |
| LITTLE | - | - | - | - | - | - | 2 | (2) | 2 | (2) |
| SKIPJACK | 65,403 | 7,219 | - | - | - | - | 10,951 | 1,307 | 76,354 | 8,526 |
| YELLOWFIN | 191,854 | 24,439 | - | - | - | - | 459 | 168 | 192,313 | 24,607 |
| TOTAL TUNA | 310,970 | 40,226 | - | - | - | - | 12,463 | 1,987 | 325,804 | 42,346 |
| TURBOT | 71 | 4 | - | - | - | - | - | - | 71 | 4 |
| WAHOO | 9 | 3 | - | - | - | - | 25 | 5 | 34 | 8 |
| WARSAW | - | - | - | - | - | - | - | - | 230 | 15 |
| WHITEBAIT | 336 | 25 | - | - | - | - | - | - | 336 | 25 |
| WHITE BASS | - | - | 2,212 | 312 | 27 | 5 | - | - | 2,239 | 317 |
| WHITFISH: | | | | | | | | | | |
| COMMON | - | - | 1,299 | 678 | 22 | 4 | - | - | 1,321 | 682 |
| MEMONINEE | - | - | 68 | 14 | - | - | - | - | 68 | 14 |
| WHITE PERCH | - | - | 1 | (2) | - | - | - | - | 2,221 | 180 |
| WHITING | - | - | - | - | - | - | - | - | 100,729 | 2,245 |
| WOLFFISH | - | - | - | - | - | - | - | - | 643 | 39 |
| YELLOW BASS | - | - | - | - | 5 | 1 | - | - | 5 | 1 |
| YELLOW PERCH | - | - | 9,351 | 1,246 | 212 | 20 | - | - | 9,694 | 1,277 |
| YELLOW PIKE | - | - | 1,537 | 460 | 667 | 96 | - | - | 2,004 | 555 |
| YELLOWTAIL | 381 | 26 | - | - | - | - | - | - | 381 | 28 |
| UNCLASSIFIED: | | | | | | | | | | |
| FOR FOOD | 28 | 2 | - | - | - | - | 464 | 262 | 8,244 | 774 |
| BAIT, REDUCTION, AND ANIMAL FOOD | 3,777 | 75 | - | - | - | - | - | - | 146,786 | 1,814 |
| TOTAL FISH | 1,050,848 | 113,571 | 70,641 | 6,971 | 57,870 | 5,575 | 14,415 | 2,859 | 4,550,377 | 215,555 |
| SHELLFISH, ETC | | | | | | | | | | |
| CRABS: | | | | | | | | | | |
| BLUE | - | - | - | - | - | - | - | - | 147,652 | 6,737 |
| HARD | - | - | - | - | - | - | - | - | 5,106 | 1,412 |
| SOFT AND PEELER | - | - | - | - | - | - | - | - | - | - |

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

UNITED STATES - CATCH BY REGION, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | PACIFIC | | GREAT LAKES | | MISSISSIPPI RIVER AND TRIBUTARIES 1/ | | HAWAII | | TOTAL | |
|-------------------------|-----------|---------|-------------|-------|--------------------------------------|-------|----------|-------|-----------|---------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| SHELLFISH, ETC.-CONT'D. | | | | | | | | | | |
| CRABS - CONTINUED: | | | | | | | | | | |
| DUNGESS | 32,699 | 4,977 | - | - | - | - | - | - | 32,699 | 4,977 |
| GREEN | - | - | - | - | - | - | - | - | 126 | 11 |
| KING | 43,412 | 3,914 | - | - | - | - | - | - | 43,412 | 3,914 |
| ROCK | - | 152 | - | - | - | - | - | - | 2,095 | 102 |
| STONE | - | - | - | - | - | - | - | - | 478 | 165 |
| TANNER | - | 7 | - | - | - | - | - | - | 7 | 18 |
| UNCLASSIFIED | - | - | - | - | - | - | 30 | 18 | 30 | 18 |
| TOTAL CRABS | 76,270 | 8,904 | - | - | - | - | 30 | 18 | 231,606 | 17,337 |
| CRAMPFISH, FRESH-WATER | 23 | 7 | (2) | (2) | 1,168 | 140 | - | - | 2,209 | 295 |
| HORSESHOE CRABS | - | - | - | - | - | - | - | - | 1,110 | 8 |
| LIMPET | - | - | - | - | - | - | 2 | 5 | 2 | 5 |
| LOBSTERS: | | | | | | | | | | |
| NORTHERN | - | - | - | - | - | - | - | - | 27,998 | 14,572 |
| SPINY | 419 | 284 | - | - | - | - | 13 | 9 | 3,235 | 1,263 |
| SHRIMP | 20,912 | 1,079 | - | - | - | - | (2) | (2) | 174,530 | 51,686 |
| ABALONE | 910 | 607 | - | - | - | - | - | - | 910 | 607 |
| CLAMS: | | | | | | | | | | |
| COCKLE | 2 | 1 | - | - | - | - | - | - | 2 | 1 |
| HARD | 403 | 170 | - | - | - | - | (2) | (2) | 14,604 | 7,077 |
| OCEAN QUAHOG | - | - | - | - | - | - | - | - | 124 | 12 |
| RAZOR | 686 | 261 | - | - | - | - | - | - | 725 | 272 |
| SOFT | - | - | - | - | - | - | - | - | 7,363 | 2,526 |
| SURF | - | - | - | - | - | - | - | - | 27,502 | 1,756 |
| MIXED | 10 | 5 | - | - | - | - | - | - | 10 | 5 |
| TOTAL CLAMS | 1,101 | 437 | - | - | - | - | (2) | (2) | 50,330 | 11,661 |
| CONCHS | - | - | - | - | - | - | - | - | 543 | 66 |
| MUSSELS, SEA | - | - | - | - | - | - | - | - | 633 | 50 |
| MUSSEL SHELLS | - | - | - | - | 16,519 | 904 | - | - | 16,519 | 904 |
| PEARLS AND SLUGS | - | - | - | - | - | 55 | - | - | - | 55 |
| OCTOPUS | 28 | 3 | - | - | - | - | 4 | 2 | 32 | 5 |
| OYSTERS, MARKET: | | | | | | | | | | |
| EASTERN: | | | | | | | | | | |
| PUBLIC | - | - | - | - | - | - | - | - | 21,086 | 12,154 |
| PRIVATE | 15 | 5 | - | - | - | - | - | - | 31,027 | 19,035 |
| PACIFIC | 10,154 | 1,920 | - | - | - | - | - | - | 10,154 | 1,920 |
| WESTERN | 38 | 95 | - | - | - | - | - | - | 38 | 95 |
| TOTAL OYSTERS | 10,207 | 2,020 | - | - | - | - | - | - | 62,305 | 33,204 |
| PERIWINKLES AND COCKLES | - | - | - | - | - | - | - | - | - | - |
| SCALLOPS: | | | | | | | | | | |
| BAY | (2) | (2) | - | - | - | - | - | - | 1,708 | 1,348 |
| CALICO | - | - | - | - | - | - | - | - | 26 | 10 |
| SEA | - | - | - | - | - | - | - | - | 27,461 | 10,404 |
| SQUID | 10,287 | 231 | - | - | - | - | 8 | 4 | 13,692 | 490 |
| SEA URCHINS | - | - | - | - | - | - | - | - | 74 | 2 |
| TERRAPIN | - | - | - | - | - | - | - | - | 19 | 8 |
| TURTLES: | | | | | | | | | | |
| BABY | - | - | - | - | 34 | 253 | - | - | 35 | 257 |
| GREEN | - | - | - | - | - | - | (2) | (2) | 36 | 6 |
| LOGGERHEAD | - | - | - | - | - | - | - | - | 6 | (2) |
| SLIDER | - | - | - | - | 19 | (2) | - | - | 19 | (2) |
| SWAPPER | - | - | - | - | 280 | 34 | - | - | 563 | 71 |
| SOFT-SHELL | - | - | - | - | 4 | (2) | - | - | 462 | 23 |
| UNCLASSIFIED | - | - | - | - | - | - | - | - | 1 | (2) |
| TOTAL TURTLES | - | - | - | - | 337 | 287 | (2) | (2) | 1,122 | 357 |
| FROGS | - | - | - | - | 68 | 31 | - | - | 93 | 33 |
| IRISH MOSS | - | - | - | - | - | - | - | - | 6,995 | 114 |
| SPONGES | - | - | - | - | - | - | - | - | 37 | 367 |
| BLOODWORMS | - | - | - | - | - | - | - | - | 600 | 521 |
| SANDWORMS | - | - | - | - | - | - | - | - | 685 | 424 |
| TOTAL SHELLFISH, ETC. | 120,157 | 13,572 | (2) | (2) | 18,112 | 1,417 | 57 | 38 | 624,508 | 145,608 |
| WHALE PRODUCTS: | | | | | | | | | | |
| MEAL | 3,316 | 203 | - | - | - | - | - | - | 3,316 | 203 |
| MEAT | 5,010 | 401 | - | - | - | - | - | - | 5,010 | 401 |
| OIL: | | | | | | | | | | |
| SPERM | 696 | 63 | - | - | - | - | - | - | 696 | 63 |
| WHALE | 2,774 | 179 | - | - | - | - | - | - | 2,774 | 179 |
| SOLUBLES | 26 | 1 | - | - | - | - | - | - | 26 | 1 |
| TOTAL WHALE PRODUCTS | 11,824 | 847 | - | - | - | - | - | - | 11,824 | 847 |
| GRAND TOTAL | 1,182,829 | 127,990 | 70,641 | 6,971 | 75,982 | 6,992 | 14,472 | 2,897 | 5,186,709 | 362,210 |

1/ INCLUDES A COMBINATION OF 1960 AND 1961 DATA. 2/ LESS THAN 500 POUNDS OR \$500. 3/ INCLUDES DATA ON THE CATCH OF BIGEYE TUNA IN HAWAII.

GENERAL REVIEW

21

UNITED STATES - CATCH BY STATES, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| STATE | MARINE WATERS AND COASTAL RIVERS | | LAKES 1/ | | MISSISSIPPI RIVER AND TRIBUTARIES 2/ | | TOTAL | |
|----------------|----------------------------------|---------|----------|-------|--------------------------------------|-------|-----------|---------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| ALABAMA | 8,458 | 1,991 | - | - | 11,362 | 969 | 19,820 | 2,960 |
| ALASKA | 413,468 | 46,470 | - | - | - | - | 413,468 | 46,470 |
| ARKANSAS | - | - | - | - | 6,036 | 733 | 6,036 | 733 |
| CALIFORNIA | 598,438 | 56,283 | - | - | - | - | 598,438 | 56,283 |
| CONNECTICUT | 6,142 | 1,186 | - | - | - | - | 6,142 | 1,186 |
| DELAWARE | 304,680 | 3,743 | - | - | - | - | 304,680 | 3,743 |
| FLORIDA | 190,142 | 25,713 | 10,958 | 1,494 | - | - | 201,100 | 27,207 |
| GEORGIA | 20,532 | 3,018 | - | - | - | - | 20,532 | 3,018 |
| HAWAII | 14,472 | 2,897 | - | - | - | - | 14,472 | 2,897 |
| ILLINOIS | - | - | 340 | 54 | 6,183 | 599 | 6,523 | 693 |
| INDIANA | - | - | 14 | 2 | 1,008 | 51 | 1,022 | 53 |
| IOWA | - | - | - | - | 3,179 | 296 | 3,179 | 296 |
| KANSAS | - | - | - | - | 60 | 8 | 60 | 8 |
| KENTUCKY | - | - | - | - | 3,460 | 331 | 3,460 | 331 |
| LOUISIANA | 648,334 | 21,432 | - | - | 8,034 | 1,343 | 656,368 | 22,775 |
| MAINE | 19,970 | 19,029 | - | - | - | - | 19,970 | 19,029 |
| MARYLAND | 66,492 | 12,778 | - | - | - | - | 66,492 | 12,778 |
| MASSACHUSETTS | 470,774 | 36,900 | - | - | - | - | 470,774 | 36,900 |
| MICHIGAN | - | - | 24,535 | 2,931 | - | - | 24,535 | 2,931 |
| MINNESOTA | - | - | 5,835 | 309 | 9,518 | 439 | 15,353 | 748 |
| MISSISSIPPI | 391,689 | 7,549 | - | - | 2,194 | 328 | 393,883 | 7,877 |
| MISSOURI | - | - | - | - | 374 | 33 | 374 | 33 |
| MONTANA | - | - | - | - | 17 | 1 | 17 | 1 |
| NEBRASKA | - | - | - | - | 541 | 39 | 541 | 39 |
| NEW HAMPSHIRE | 1,146 | 426 | - | - | - | - | 1,146 | 426 |
| NEW JERSEY | 396,752 | 11,032 | - | - | - | - | 396,752 | 11,032 |
| NEW YORK | 124,011 | 9,177 | 897 | 142 | - | - | 124,908 | 9,319 |
| NORTH CAROLINA | 286,751 | 6,669 | - | - | - | - | 286,751 | 6,669 |
| NORTH DAKOTA | - | - | - | - | 827 | 35 | 827 | 35 |
| OHIO | - | - | 15,810 | 1,398 | - | - | 15,810 | 1,398 |
| OKLAHOMA | - | - | - | - | 334 | 42 | 334 | 42 |
| OREGON | 50,542 | 6,521 | - | - | - | - | 50,542 | 6,521 |
| PENNSYLVANIA | - | - | 1,286 | 147 | - | - | 1,286 | 147 |
| RHODE ISLAND | 84,046 | 3,317 | - | - | - | - | 84,046 | 3,317 |
| SOUTH CAROLINA | 19,242 | 3,345 | - | - | - | - | 19,242 | 3,345 |
| SOUTH DAKOTA | - | - | - | - | 2,202 | 140 | 2,202 | 140 |
| TENNESSEE | - | - | - | - | 9,281 | 998 | 9,281 | 998 |
| TEXAS | 203,252 | 24,246 | - | - | 721 | 92 | 203,973 | 24,338 |
| VIRGINIA | 411,414 | 24,315 | - | - | - | - | 411,414 | 24,315 |
| WASHINGTON | 120,381 | 18,716 | - | - | - | - | 120,381 | 18,716 |
| WISCONSIN | - | - | 21,924 | 1,988 | 10,253 | 504 | 32,177 | 2,492 |
| WYOMING | - | - | - | - | 378 | 11 | 378 | 11 |
| TOTAL | 5,029,128 | 346,753 | 81,599 | 8,465 | 75,982 | 6,992 | 5,186,709 | 362,210 |

1/ INCLUDES THE CATCH OF THE GREAT LAKES, THE INTERNATIONAL LAKES OF MINNESOTA, AND THE INLAND LAKES OF FLORIDA.
 2/ INCLUDES A COMBINATION OF 1960 AND 1961 DATA.

UNITED STATES - CATCH BY GEAR, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| GEAR | NEW ENGLAND | | MIDDLE ATLANTIC | | CHESAPEAKE | | SOUTH ATLANTIC | |
|----------------------|-------------|--------|-----------------|--------|------------|---------|----------------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| HAUL SEINES | 1,502 | 32 | 1,726 | 223 | 20,389 | 906 | 12,960 | 1,070 |
| STOP NETS AND SEINES | 37,616 | 714 | 132 | 6 | - | - | - | - |
| FURSE SEINES | 60,154 | 740 | 701,888 | 8,148 | 262,264 | 2,587 | 258,252 | 2,731 |
| BAG NETS | 82 | 12 | - | - | - | - | 50 | 11 |
| BEAM TRAWLS | - | - | 4 | 4 | - | - | - | - |
| OTTER TRAWLS | 554,301 | 28,631 | 50,929 | 4,695 | 23,661 | 1,842 | 47,111 | 7,981 |
| WEIRS | 4,627 | 96 | 616 | 6 | - | - | - | - |
| POUND NETS | 5,301 | 396 | 20,750 | 425 | 47,003 | 1,791 | 11,666 | 281 |
| FLOATING TRAPS | 8,006 | 449 | - | - | - | - | - | - |
| FYKE AND HOOP NETS | 8 | 1 | 193 | 17 | 281 | 124 | 478 | 50 |
| POTS AND TRAPS | 27,419 | 13,561 | 2,718 | 569 | 4/48,685 | 4/2,505 | 29,097 | 1,843 |
| GILL NETS | 6,524 | 384 | 2,140 | 300 | 9,829 | 1,148 | 14,153 | 1,387 |
| TRAMMEL NETS | - | - | - | - | - | - | 166 | 72 |
| HOOKS AND BAITS | 10,028 | 705 | 2,818 | 304 | 16,813 | 953 | 22,882 | 2,389 |
| DIP NETS | 1,602 | 160 | - | - | 201 | 49 | 609 | 47 |
| LIFT NETS | 500 | 4 | - | - | - | - | - | - |
| PUSH NETS | - | - | 1 | 1 | - | - | - | - |
| CAST NETS | - | - | - | - | - | - | 45 | 13 |
| HARPOONS | 1,004 | 334 | 72 | 33 | - | - | - | - |
| SPEARS | 6 | 1 | 39 | 5 | - | - | 133 | 24 |
| SCRAPES | - | - | - | - | 2,710 | 583 | - | - |
| DREDGES | 26,382 | 10,445 | 36,020 | 6,673 | 31,487 | 15,511 | 811 | 466 |
| TONGS AND RAKES | 10,708 | 1,938 | 4,304 | 2,292 | 12,326 | 8,970 | 1,935 | 841 |
| HOES AND FORKS | 4,034 | 2,224 | (7) | 6 | 3 | - | - | - |
| HOOKS | - | - | - | - | - | - | - | - |
| DIVING OUTFITS | 39 | 20 | - | - | - | - | - | - |
| BY HAND | 35 | 11 | 1,087 | 248 | 257 | 124 | 1,898 | 730 |
| TOTAL | 760,078 | 60,658 | 625,443 | 23,952 | 477,906 | 37,093 | 402,246 | 19,936 |

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

UNITED STATES - CATCH BY GEAR, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| GEAR | GULF | | PACIFIC | | GREAT LAKES | |
|---|-----------|--------|-----------|----------|-------------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| HAUL SEINES | 7,931 | 573 | 2/ 4,465 | 2/ 390 | 10,822 | 612 |
| PURSE SEINES | 1,020,470 | 11,600 | 2/642,733 | 2/50,721 | - | - |
| BEAM TRAWLS | - | - | 6,225 | 362 | - | - |
| OTTER TRAWLS | 215,130 | 45,259 | 115,905 | 6,044 | 9,258 | 318 |
| WEIRS | - | - | 104 | 10 | 4,728 | 255 |
| POUND NETS | - | - | 477 | 111 | 11,030 | 1,322 |
| TRAP NETS | - | - | 5,393 | 548 | - | - |
| FLOATING TRAPS | 2,490 | 427 | - | - | 1,250 | 140 |
| FYKE AND HOOP NETS | 25,182 | 2,042 | 76,907 | 9,205 | - | - |
| POTS AND TRAPS | 37,957 | 2,755 | 5/135,515 | 5/24,706 | 33,166 | 4,236 |
| GILL NETS | 7,006 | 1,028 | (5) | (5) | - | - |
| TRAMMEL NETS | 39,542 | 5,901 | 163,874 | 31,355 | 386 | 88 |
| HOOKS AND BAITS | 2,658 | 261 | 6/4,028 | 5/257 | 1 | (7) |
| DIP NETS | - | - | 785 | 217 | - | - |
| REEF NETS | - | - | 40 | 6 | - | - |
| WHEELS | 39 | 2 | - | - | - | - |
| CAST NETS | - | - | 12,159 | 994 | - | - |
| HARPOONS | 98 | 22 | - | - | - | - |
| SPEARS | 13,171 | 3,548 | 8/10,034 | 8/1,957 | - | - |
| DREDGES | 3,075 | 1,581 | 9/236 | 8/86 | - | - |
| TONGS AND RAKES ^{9/} | - | - | 1,038 | 414 | - | - |
| SHOVELS | 274 | 137 | - | - | - | - |
| BRUSH TRAPS | 5 | 2 | - | - | - | - |
| GRABS | 6 | 46 | - | - | - | - |
| HOOKS | 31 | 321 | 911 | 607 | - | - |
| DIVING OUTFITS | 45 | 16 | (8) | - | - | - |
| BY HAND | - | - | - | - | - | - |
| TOTAL | 1,377,112 | 75,521 | 1,182,829 | 127,990 | 70,641 | 6,971 |

| GEAR | MISSISSIPPI RIVER AND TRIBUTARIES ^{1/} | | HAWAII | | TOTAL | |
|---|--|-------|----------|-------|-----------|---------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| HAUL SEINES | (3) | (3) | 79 | 33 | 59,674 | 3,839 |
| STOP NETS AND SEINES | - | - | - | - | 37,748 | 720 |
| PURSE SEINES | - | - | - | - | 2,945,761 | 76,527 |
| BAG NETS | - | - | 221 | 126 | 353 | 149 |
| BEAM TRAWLS | - | - | - | - | 6,229 | 366 |
| OTTER TRAWLS | (3) | (3) | - | - | 1,016,295 | 94,770 |
| WEIRS | (3) | (3) | - | - | 5,347 | 112 |
| POUND NETS | (3) | (3) | - | - | 89,925 | 3,259 |
| TRAP NETS | (3) | (3) | - | - | 11,030 | 1,322 |
| FLOATING TRAPS | - | - | - | - | 13,399 | 997 |
| FYKE AND HOOP NETS | (3) | (3) | - | - | 6,700 | 759 |
| POTS AND TRAPS | (3) | (3) | 126 | 60 | 210,134 | 29,785 |
| GILL NETS | (3) | (3) | 61 | 35 | 239,345 | 34,951 |
| TRAMMEL NETS | (3) | (3) | - | - | 7,174 | 1,100 |
| HOOKS AND BAITS | (3) | (3) | 13,784 | 2,525 | 272,127 | 44,220 |
| DIP NETS | (3) | (3) | - | - | 9,299 | 774 |
| LIFT NETS | - | - | 102 | 43 | 602 | 47 |
| REEF NETS | - | - | - | - | 785 | 217 |
| PUSH NETS | - | - | - | - | 1 | 1 |
| WHEELS | - | - | - | - | 40 | 6 |
| CAST NETS | - | - | 1 | 1 | 85 | 16 |
| HARPOONS | - | - | - | - | 13,235 | 1,361 |
| SPEARS | - | - | 2 | 1 | 278 | 53 |
| SCRAPES | - | - | - | - | 2,710 | 583 |
| DREDGES | - | - | - | - | 117,905 | 38,600 |
| TONGS AND RAKES ^{9/} | - | - | - | - | 34,594 | 15,708 |
| HOES AND FORKS | - | - | - | - | 4,040 | 2,227 |
| SHOVELS | - | - | - | - | 1,038 | 414 |
| BRUSH TRAPS | - | - | - | - | 274 | 137 |
| GRABS | (3) | (3) | - | - | 5 | 2 |
| HOOKS | - | - | - | - | 6 | 46 |
| DIVING OUTFITS | - | - | - | - | 961 | 946 |
| BY HAND | (3) | (3) | 2 | 5 | 3,324 | 1,134 |
| UNCLASSIFIED GEAR | 75,962 | 6,992 | 94 | 68 | 76,076 | 7,060 |
| TOTAL | 75,982 | 6,992 | 14,472 | 2,897 | 5,186,709 | 362,210 |

1/ INCLUDES A COMBINATION OF 1960 AND 1961 DATA. 2/ THE CATCH BY HAUL SEINES IN ALASKA AND BY LAMPARA NETS IN CALIFORNIA HAVE BEEN INCLUDED WITH PURSE SEINES. 3/ DATA NOT AVAILABLE. 4/ THE CATCH BY SLAT TRAPS IN VIRGINIA HAS BEEN INCLUDED WITH POTS AND TRAPS. 5/ THE CATCH BY TRAMMEL NETS IN CALIFORNIA HAS BEEN INCLUDED WITH GILL NETS. 6/ THE CATCH BY BRAIL OR SCOOP NETS IN CALIFORNIA HAS BEEN INCLUDED WITH DIP NETS. 7/ LESS THAN 500 POUNDS OR \$500. 8/ THE CATCH BY HAND IN WASHINGTON AND OREGON HAS BEEN INCLUDED IN THE CATCH BY DREDGES. IN CALIFORNIA, IT HAS BEEN INCLUDED WITH TONGS. 9/ INCLUDES THE CATCH BY OYSTER GRABS.

GENERAL REVIEW

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CATCH FROM WATERS OFF THE UNITED STATES AND ON THE HIGH SEAS OFF FOREIGN COASTS, 1961

(MILLION POUNDS)

| AREA AND SPECIES | WATERS OFF U.S. COASTS | HIGH SEAS OFF FOREIGN COASTS | TOTAL |
|--|---------------------------|---------------------------------|----------|
| | QUANTITY | QUANTITY | QUANTITY |
| ATLANTIC AND GULF STATES: | | | |
| NEW ENGLAND: | | | |
| COD | 39.3 | 2.9 | 42.2 |
| CUSK | 1.6 | .3 | 1.9 |
| FLOUNDERS | 66.7 | .5 | 67.2 |
| HADDOCK | 113.1 | 20.4 | 133.5 |
| HAKE: | | | |
| RED | 7.1 | .1 | 7.2 |
| WHITE | 4.7 | .4 | 5.1 |
| HALIBUT | .2 | .1 | .3 |
| OCEAN PERCH | 31.0 | 101.1 | 132.1 |
| POLLOCK | 16.9 | 4.5 | 21.4 |
| WHITING | 93.9 | (1) | 93.9 |
| WOLFFISH | .4 | .2 | .6 |
| OTHER | 254.7 | (1) | 254.7 |
| TOTAL | 629.6 | 130.5 | 760.1 |
| MIDDLE ATLANTIC, CHESAPEAKE, AND SOUTH ATLANTIC STATES, TOTAL | | | |
| | 1,705.6 | - | 1,705.6 |
| GULF: | | | |
| SHRIMP | 99.6 | 34.2 | 133.8 |
| SNAPPER, RED | 7.6 | 4.3 | 11.9 |
| OTHER | 1,230.5 | .9 | 1,231.4 |
| TOTAL | 1,337.7 | 39.4 | 1,377.1 |
| TOTAL ATLANTIC AND GULF STATES | 3,672.9 | 169.9 | 3,842.8 |
| PACIFIC COAST STATES: | | | |
| ALASKA, WASHINGTON, AND OREGON: | | | |
| BOTTOMFISH (WASHINGTON AND OREGON) 2/ | 44.6 | 25.2 | 69.8 |
| HALIBUT | 48.8 | 4.4 | 53.2 |
| SALMON | 300.0 | 1.8 | 301.8 |
| TUNA, ALBACORE | 3.7 | (1) | 3.7 |
| OTHER | 155.5 | .4 | 155.9 |
| TOTAL | 552.6 | 31.8 | 584.4 |
| CALIFORNIA: | | | |
| BARRACUDA | .5 | .2 | .7 |
| BONITO | 8.4 | .1 | 8.5 |
| FLOUNDERS | 17.7 | .1 | 17.8 |
| GROUPERS | - | .2 | .2 |
| POMPANO | (1) | (1) | (1) |
| ROCKFISHES | 10.5 | .3 | 10.8 |
| SABLEFISH | 1.6 | (1) | 1.6 |
| SEA BASS: | | | |
| BLACK | (1) | .3 | .3 |
| WHITE | .5 | .2 | .7 |
| SHARKS, UNCLASSIFIED | (1) | (1) | .6 |
| SHEEPSHEAD | (1) | (1) | (1) |
| SWORDFISH | .4 | (1) | .4 |
| TUNA: | | | |
| ALBACORE | 20.7 | 8.4 | 29.1 |
| BLUEFIN | 13.8 | 7.1 | 20.9 |
| SKIPJACK | (1) | 65.4 | 65.4 |
| YELLOWFIN | - | 191.9 | 191.9 |
| YELLOWTAIL | .1 | .3 | .4 |
| LOBSTERS, SPINY | .4 | (1) | .4 |
| OTHER | 248.5 | .2 | 248.7 |
| TOTAL | 323.7 | 274.7 | 598.4 |
| TOTAL PACIFIC COAST STATES | 876.3 | 306.5 | 1,182.8 |
| GREAT LAKES AND MISSISSIPPI RIVER STATES, | | | |
| TOTAL | 146.6 | - | 146.6 |
| HAWAII, TOTAL | | | |
| | 14.5 | - | 14.5 |
| GRAND TOTAL | 4,710.3 | 476.4 | 5,186.7 |

1/ LESS THAN 50,000 POUNDS.

2/ PRINCIPALLY COD, FLOUNDERS (INCLUDING SOLE), LINGCOD, OCEAN PERCH, ROCKFISHES, AND SABLEFISH.

GENERAL REVIEW

RELATIVE VOLUME OF THE CATCH, BY SPECIES 1961

| SPECIES | QUANTITY | PERCENT OF TOTAL | RECORD CATCH | |
|--|-----------|------------------------|--------------------|--------------------|
| | | | THOUSAND POUNDS | THOUSAND POUNDS |
| | | | YEAR | |
| MEHADEN | 2,314,677 | 44.6 | 1961 | 2,314,677 |
| TUNA | 325,804 | 6.3 | 1950 | 391,454 |
| SALMON | 310,398 | 6.0 | 1936 | 790,884 |
| CRABS | 231,606 | 4.5 | 1961 | 231,606 |
| SHRIMP | 174,530 | 3.4 | 1954 | 268,334 |
| INDUSTRIAL FISH 1/ | 146,766 | 2.8 | 1959 | 247,980 |
| HADDOCK | 133,597 | 2.6 | 1929 | 293,809 |
| FLOUNDERS | 133,111 | 2.6 | 1948 | 138,924 |
| OCEAN PERCH, ATLANTIC | 132,062 | 2.6 | 1951 | 258,320 |
| HERRING, SEA | | | | |
| ATLANTIC | 58,243 | 1.1 | 1902 | 200,598 |
| PACIFIC | 54,491 | 1.1 | 1937 | 263,200 |
| TOTAL | 112,734 | 2.2 | - | - |
| WHITING | 100,729 | 1.9 | 1957 | 133,041 |
| JACK MACKEREL | 97,810 | 1.9 | 1952 | 146,522 |
| OYSTERS | 62,305 | 1.2 | 2/ 1908 | 152,046 |
| ALEWIVES | 56,077 | 1.1 | 1908 | 89,978 |
| HALIBUT, PACIFIC | 53,238 | 1.0 | 1915 | 66,696 |
| CLAMS | 50,350 | 1.0 | 1961 | 50,350 |
| COD: | | | | |
| ATLANTIC | 46,591 | .9 | 1880 | 294,351 |
| PACIFIC | 3,067 | .1 | 1915 | 32,681 |
| TOTAL | 49,658 | 1.0 | - | - |
| SCUP OR PORGY | 46,584 | .9 | 1960 | 49,229 |
| MACKEREL, PACIFIC | 44,110 | .9 | 1935 | 146,727 |
| SARDINE, PACIFIC | 43,170 | .8 | 1936 | 1,502,299 |
| MULLET | 42,813 | .8 | 1902 | 43,385 |
| CATFISH AND BULLHEADS | 38,468 | .7 | 1961 | 38,468 |
| CARP | 30,901 | .6 | 1908 | 42,599 |
| LOBSTERS, NORTHERN | 27,998 | .5 | 1960 | 31,168 |
| SCALLOPS, SEA | 27,461 | .5 | 1961 | 27,461 |
| ROCKFISHES | 23,882 | .5 | 1945 | 57,686 |
| POLLOCK | 21,406 | .4 | 1938 | 40,694 |
| MUSSEL SHELLS | 16,519 | .3 | 1908 | 81,869 |
| CHUBS | 16,516 | .3 | 1960 | 16,854 |
| BUFFALOFISH | 15,823 | .3 | 1950 | 25,873 |
| SQUID | 13,692 | .3 | 1946 | 40,266 |
| SNAPPER, RED | 12,688 | .2 | 1902 | 23,457 |
| SHEPSEAD, FRESH-WATER | 12,491 | .2 | 1959 | 13,644 |
| OCEAN PERCH, PACIFIC | 12,443 | .2 | 1961 | 12,443 |
| WHALE PRODUCTS 3/ | 11,824 | .2 | (4) | (4) |
| HERRING, LAKE | 11,702 | .2 | 1899 | 59,914 |
| BUTTERFISH | 10,225 | .2 | 1939 | 17,151 |
| YELLOW PERCH | 9,694 | .2 | 1934 | 16,282 |
| STRIPED BASS | 9,495 | .2 | 1961 | 9,495 |
| HAKE, RED | 8,773 | .2 | (4) | (4) |
| BONITO | 8,653 | .2 | 1947 | 13,918 |
| LINGCOD | 7,999 | .2 | 1944 | 14,262 |
| SPOT | 7,912 | .2 | 1952 | 15,863 |
| ANCHOVIES | 7,783 | .2 | 1953 | 86,004 |
| SPANISH MACKEREL | 7,433 | .1 | 1945 | 11,593 |
| GROUPERS | 7,264 | .1 | 1945 | 8,882 |
| SHAD | 6,286 | .1 | 1890 | 43,000 |
| IRISH MOSS | 6,995 | .1 | 1961 | 6,995 |
| SABLEFISH | 6,704 | .1 | 1945 | 17,750 |
| SEA BASS, BLACK (ATLANTIC) | 6,405 | .1 | 1952 | 21,997 |
| SMELT | 5,484 | .1 | 1958 | 13,303 |
| SEA TROUT OR WEAKFISH, SPOTTED | 5,380 | .1 | 1936 | 8,800 |
| HAKE, WHITE | 5,214 | .1 | 1898 | 39,900 |
| CROAKER | 5,175 | .1 | 1945 | 64,668 |
| KING WHITING OR "KINGFISH" | 4,545 | .1 | 1952 | 5,270 |
| SEA TROUT OR WEAKFISH, GRAY | 4,471 | .1 | 1945 | 41,420 |
| UNCLASSIFIED | 86,906 | 1.7 | - | - |
| TOTAL | 5,186,709 | 100.0 | 1956 | 5,268,246 |

1/ UNCLASSIFIED SPECIES FOR BAIT, REDUCTION, AND ANIMAL FOOD.

2/ FIRST YEAR IN WHICH AN OYSTER SURVEY WAS MADE IN ALL REGIONS.

3/ SINCE DATA ARE NOT AVAILABLE ON THE POUNDAGE OF WHALES TAKEN, STATISTICS ON THE YIELD OF THESE MAMMALS REPRESENT THE WEIGHT OF THE WHALE PRODUCTS PRODUCED WHICH INCLUDE MEAL, MEAT, AND OIL.

4/ DATA NOT AVAILABLE.

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RELATIVE VALUE OF THE CATCH, BY SPECIES, 1961

| SPECIES | VALUE | PERCENT OF TOTAL | RECORD VALUE | |
|--|-----------------------------|------------------------|--------------|-----------------------------|
| | <u>THOUSAND DOLLARS</u> | <u>PERCENT</u> | <u>YEAR</u> | <u>THOUSAND DOLLARS</u> |
| SALMON | 52,027 | 14.4 | 1951 | 52,509 |
| SHRIMP | 51,688 | 14.3 | 1953 | 76,641 |
| TUNA | 42,346 | 11.7 | 1950 | 61,342 |
| OYSTERS | 33,204 | 9.2 | 1961 | 33,204 |
| MENHADEN | 25,579 | 7.0 | 1956 | 28,425 |
| CRABS | 17,337 | 4.8 | 1961 | 17,337 |
| LOBSTERS, NORTHERN | 14,572 | 4.0 | 1961 | 14,572 |
| FLOUNDERS | 12,663 | 3.5 | 1951 | 13,253 |
| CLAMS | 11,661 | 3.2 | 1960 | 12,049 |
| SCALLOPS, SEA | 10,404 | 2.9 | 1959 | 11,805 |
| HADDOCK | 9,907 | 2.7 | 1946 | 13,043 |
| HALIBUT, PACIFIC | 8,408 | 2.3 | 1956 | 9,013 |
| CATFISH AND BULLHEADS | 6,352 | 1.8 | 1952 | 6,411 |
| OCEAN PERCH, ATLANTIC | 5,114 | 1.4 | 1951 | 12,597 |
| SNAPPER, RED | 3,266 | .9 | 1961 | 3,266 |
| COD: | | | | |
| ATLANTIC | 2,995 | .8 | 1948 | 4,742 |
| PACIFIC | 150 | .1 | 1959 | 664 |
| TOTAL | 3,145 | .9 | - | - |
| SCUP OR PORGY | | | | |
| MULLET | 2,931 | .8 | 1951 | 2,994 |
| WHITING | 2,548 | .7 | 1945 | 4,647 |
| CHUBS | 2,245 | .6 | 1951 | 2,903 |
| JACK MACKEREL | 2,128 | .6 | 1958 | 2,564 |
| BUFFALOFISH | 2,109 | .6 | 1952 | 4,755 |
| | 1,837 | .5 | 1952 | 3,564 |
| HERRING, SEA: | | | | |
| ATLANTIC | 1,102 | .3 | 1948 | 3,798 |
| PACIFIC | 730 | .2 | 1947 | 2,152 |
| TOTAL | 1,832 | .5 | - | - |
| INDUSTRIAL FISH ^{1/} | | | | |
| SCALLOPS, BAY | 1,814 | .5 | 1959 | 2,632 |
| SEA TROUT OR WEAKFISH, SPOTTED | 1,348 | .4 | 1960 | 1,474 |
| YELLOW PERCH | 1,283 | .4 | 1952 | 1,781 |
| STRIPED BASS | 1,277 | .4 | 1958 | 1,540 |
| LOBSTERS, SPINY | 1,270 | .4 | 1959 | 1,436 |
| SHAD | 1,263 | .3 | 1957 | 1,500 |
| SARDINE, PACIFIC | 1,243 | .3 | 1945 | 2,680 |
| ROCKFISHES | 1,146 | .3 | 1950 | 12,140 |
| CARP | 1,137 | .3 | 1945 | 2,648 |
| SEA BASS, BLACK (ATLANTIC) MACKEREL, PACIFIC | 1,098 | .3 | 1951 | 2,007 |
| BUTTERFISH | 1,090 | .3 | 1952 | 5,206 |
| MUSSEL SHELS | 956 | .3 | 1957 | 1,231 |
| WHALE PRODUCTS ^{3/} | 948 | .3 | 1958 | 971 |
| POLLOCK | 904 | .2 | (2) | (2) |
| GROUPEFS | 847 | .2 | (2) | (2) |
| CROAKER | 795 | .2 | 1945 | 1,819 |
| SPANISH MACKEREL | 765 | .2 | 1945 | 1,038 |
| ALBIES | 762 | .2 | 1945 | 6,950 |
| SABLEFISH | 752 | .2 | 1945 | 1,521 |
| WHITEFISH, COMMON | 716 | .2 | 1958 | 861 |
| HERRING, LAKE | 693 | .2 | 1946 | 1,834 |
| ABALONE | 682 | .2 | 1948 | 3,764 |
| OCEAN PERCH, PACIFIC | 653 | .2 | 1952 | 1,458 |
| SPOT | 607 | .2 | 1961 | 607 |
| YELLOW PIKE | 594 | .2 | 1961 | 594 |
| SHEEPSHEAD, FRESH-WATER | 560 | .2 | 1949 | 970 |
| POMPANO | 536 | .2 | 1952 | 2,152 |
| BLOODWORMS | 523 | .1 | 1951 | 929 |
| SWORDFISH | 522 | .1 | 1941 | 695 |
| BLUEFISH | 521 | .1 | 1961 | 521 |
| SQUID | 520 | .1 | 1946 | 1,435 |
| UNCLASSIFIED | 512 | .1 | 1951 | 760 |
| | 490 | .1 | 1947 | 1,370 |
| | 10,060 | 2.8 | - | - |
| TOTAL | 362,210 | 100.0 | 1958 | 373,311 |

^{1/} UNCLASSIFIED SPECIES FOR BAIT, REDUCTION, AND ANIMAL FOOD.

^{2/} DATA NOT AVAILABLE.

^{3/} THE VALUE OF WHALE PRODUCTS REPRESENT THE AMOUNT RECEIVED BY THE MANUFACTURER FOR THE PRODUCTION OF WHALE MEAL, MEAT, AND OIL.

GENERAL REVIEW

UNITED STATES CATCH, 1961 - LIVE WEIGHT BASIS

In the annual digest it has been the practice of the Bureau to show the catch of uni-valve and bivalve mollusks on the basis of the weight of meats. Insofar as possible, all other fish and shellfish items are shown on a live weight basis.

Since world fishery statistics published by the Food and Agriculture Organization of the United Nations represent the live weight of the catch for all items of fish and shellfish, it has been necessary to provide that organization with information on the domestic catch of all species on a live weight basis. Data released by the Food and Agriculture Organization, therefore, indicate that the 1961 United States catch was 1.3 billion pounds greater than the figure appearing in Bureau publications. The increase is due to the inclusion of the weight of the shells of uni-valve and bivalve mollusks in the Food and Agriculture Organization data.

It has been deemed desirable to include in this report a table showing the entire domestic catch on a live weight basis. Information is also published on the catch of fishery products in the principal countries of the world so that the relative importance of the domestic fisheries can be determined. Tables containing these data follow:

UNITED STATES CATCH, 1961 - LIVE WEIGHT BASIS

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| ITEM | QUANTITY | VALUE |
|---|-----------|---------|
| FISH | 4,550,377 | 215,585 |
| SHELLFISH, ETC.: | | |
| UNIVALVE AND BIVALVE MOLLUSKS: | | |
| ABALONE | 4,554 | 607 |
| CLAMS: | | |
| COCKLE | 6 | 1 |
| HARD | 114,319 | 7,077 |
| OCEAN QUAHOG | 995 | 12 |
| RAZOR | 1,733 | 272 |
| SOFT | 36,971 | 2,528 |
| SURF | 137,264 | 1,766 |
| MIXED | 47 | 5 |
| TOTAL CLAMS | 291,335 | 11,661 |
| LIMPETS | 11 | 5 |
| CONCHS | 1,604 | 66 |
| MUSSELS: | | |
| SEA | 4,398 | 50 |
| FRESH-WATER | 18,171 | 959 |
| OYSTERS, MARKET | 887,390 | 33,204 |
| PERIWINKLES AND COCKLES | 140 | 10 |
| SCALLOPS: | | |
| BAY | 13,479 | 1,348 |
| CALICO | 340 | 10 |
| SEA | 227,697 | 10,404 |
| TOTAL UNIVALVE AND BIVALVE MOLLUSKS | 1,449,319 | 58,324 |
| CRUSTACEANS | 440,688 | 85,163 |
| OTHER | 23,349 | 2,321 |
| TOTAL SHELLFISH, ETC. | 1,913,356 | 145,808 |
| WHALE PRODUCTS | 11,824 | 847 |
| GRAND TOTAL | 6,475,557 | 362,210 |

WORLD CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY COUNTRIES

The 1961 world commercial catch of fish, crustaceans, mollusks, etc., totaled a record 90.7 billion pounds, according to the "Yearbook of Fishery Statistics, 1961" released by the Food and Agriculture Organization of the United Nations. The 1961 catch was 8 percent over the 1960 production of 83.8 billion pounds and was more than double the volume taken in 1938 and 1948--just before and after World War II.

Five countries accounted for well over 50 percent of the 1961 world catch. Japan (16.3 percent) continued to be the leading fishing nation of the world. Peru, the third place fishing nation in 1960, moved up to second position in 1961 with 12.7 percent of the world catch. In third place was China (Mainland) with 12.2 percent, followed by the U. S. S. R. (7.9 percent), and the United States (7.1 percent).

In 1956, the United States ranked second only to Japan as a fishing nation. In 1961, it followed not only Japan but also Peru, China (Mainland), and the U. S. S. R. Peru's catch has risen phenomenally from only 470 million pounds in 1955 to 11.6 billion pounds in 1961, due chiefly to the development of the anchovy fishery.

Asia, excluding the U. S. S. R., accounted for 41 percent of the world catch. Europe, excluding the U. S. S. R., accounted for 20 percent, followed by South America, 15 percent; North America, 10 percent; U. S. S. R., 8 percent; and Africa, 6 percent. An insignificant percentage was taken in Oceania.

About 37 percent of the world catch was marketed fresh. Reduction into meal and oil accounted for 23 percent; cured, 18 percent; and canned and frozen, 10 percent each. The remaining 2 percent was used for miscellaneous purposes.

WORLD CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY COUNTRIES, 1961 (LIVE WEIGHT BASIS)

| COUNTRY | BILLION POUNDS | PERCENT |
|---------------------------------------|----------------|---------|
| JAPAN | 14.79 | 16.3 |
| PERU | 11.56 | 12.7 |
| CHINA (MAINLAND) | 1/11.07 | 12.2 |
| U. S. S. R. | 7.16 | 7.9 |
| UNITED STATES | 2/ 6.48 | 7.1 |
| NORWAY | 3.33 | 3.7 |
| CANADA | 2.25 | 2.5 |
| SPAIN | 2.24 | 2.5 |
| INDIA | 2.12 | 2.3 |
| UNITED KINGDOM | 1.98 | 2.2 |
| INDONESIA | 1.62 | 1.8 |
| ICELAND | 1.55 | 1.7 |
| UNION OF SOUTH AFRICA | 1.45 | 1.6 |
| DENMARK | 1.41 | 1.5 |
| GERMANY, WESTERN | 1.36 | 1.5 |
| PORTUGAL | 1.26 | 1.4 |
| FRANCE | 1.25 | 1.4 |
| REPUBLIC OF THE PHILIPPINES | 1.05 | 1.2 |
| CHILE | .95 | 1.0 |
| KOREA, SOUTH | .91 | 1.0 |
| SOUTH WEST AFRICA | .78 | .9 |
| NETHERLANDS | .76 | .8 |
| PAKISTAN | .70 | .8 |
| CHINA (TAIWAN) | .69 | .7 |
| THAILAND | .67 | .7 |
| SWEDEN | .58 | .6 |
| BRAZIL | 3/ .57 | .6 |
| ANGOLA | .53 | .6 |
| VIET-NAM, SOUTH | 3/ .53 | .6 |
| ITALY | .52 | .6 |
| MEXICO | 1/ .42 | .5 |
| POLAND | .41 | .5 |
| FEDERATION OF MALAYA | .39 | .4 |
| OTHER | 7.40 | 8.2 |
| TOTAL | 90.74 | 100.0 |

1/ 1959 DATA.

2/ REVISED.

3/ 1960 DATA.

SOURCE:--YEARBOOK OF FISHERY STATISTICS, 1961, VOLUME XIV, FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS.

GENERAL REVIEW

SEED OYSTER FISHERY, 1961

| ITEM | NEW ENGLAND 1/ | | MIDDLE ATLANTIC 2/ | | CHESAPEAKE 3/ | | SOUTH ATLANTIC 4/ | | TOTAL | |
|---------------------------|----------------|----------|--------------------|-----------|---------------|-----------|-------------------|-------|--------------|-----------|
| | NUMBER | | NUMBER | | NUMBER | | NUMBER | | NUMBER | |
| OPERATING UNITS | | | | | | | | | | |
| FISHERMEN: | | | | | | | | | | |
| ON VESSELS | 22 | | 716 | | 199 | | - | | 937 | |
| ON BOATS AND SHORE: | | | | | | | | | | |
| REGULAR | - | | - | | 558 | | 12 | | 570 | |
| CASUAL | - | | - | | 336 | | - | | 336 | |
| TOTAL | 22 | | 716 | | 1,095 | | 12 | | 1,845 | |
| VESSELS, MOTOR | 6 | | 67 | | 79 | | - | | 152 | |
| GROSS TONNAGE | 202 | | 2,345 | | 499 | | - | | 3,046 | |
| BOATS: | | | | | | | | | | |
| MOTOR | - | | - | | 592 | | 12 | | 604 | |
| OTHER | - | | - | | 4 | | - | | 4 | |
| GEAR: | | | | | | | | | | |
| DREDGES, COMMON | 12 | | 131 | | - | | - | | 143 | |
| YARDS AT MOUTH | 14 | | 175 | | - | | - | | 189 | |
| TONGS | - | | - | | 1,095 | | - | | 1,095 | |
| CATCH | | | | | | | | | | |
| U.S. BUSHELS | | VALUE | U.S. BUSHELS | VALUE | U.S. BUSHELS | VALUE | U.S. BUSHELS | VALUE | U.S. BUSHELS | VALUE |
| OYSTERS, SEED: | | | | | | | | | | |
| PUBLIC: | | | | | | | | | | |
| SPRING | - | - | 160,000 | \$225,000 | 932,710 | \$730,110 | - | - | 1,112,710 | \$955,110 |
| FALL | - | - | - | - | 1,140,709 | 547,452 | - | - | 1,140,709 | 547,452 |
| PRIVATE: | | | | | | | | | | |
| SPRING | 11,550 | \$61,075 | - | - | 29,335 | 26,275 | 300 | \$108 | 41,165 | \$7,456 |
| FALL | 11,714 | 37,643 | - | - | 102,323 | 75,450 | 500 | 180 | 114,537 | 115,273 |
| TOTAL | 23,264 | 98,718 | 160,000 | 225,000 | 2,205,077 | 1,379,287 | 800 | 288 | 2,409,141 | 1,703,293 |

1/ CONFINED TO CONNECTICUT.

2/ CONFINED TO NEW JERSEY.

3/ CONFINED TO VIRGINIA.

4/ CONFINED TO SOUTH CAROLINA.

NOTE:—THE CAPACITY OF A U.S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES. OF THE TOTAL NUMBER OF PERSONS FISHING FOR SEED OYSTERS, 1,222 WERE DUPLICATED AMONG THOSE FISHING FOR MARKET OYSTERS OR OTHER SPECIES. SIMILARLY, THE FOLLOWING CRAFT AND GEAR WERE DUPLICATED: 96 VESSELS (1,454 GROSS TONS), 596 MOTOR BOATS, 61 DREDGES (79 YARDS AT MOUTH), AND 965 TONGS.

WHOLESALE AND MANUFACTURING, 1961

| ITEM | NEW ENGLAND | MIDDLE ATLANTIC | CHESAPEAKE | SOUTH ATLANTIC | GULF |
|-----------------------------------|-------------|-----------------|-----------------------------------|----------------|--------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| WHOLESALE AND MANUFACTURING: | | | | | |
| ESTABLISHMENTS | 541 | 506 | 597 | 458 | 768 |
| PERSONS ENGAGED: | | | | | |
| AVERAGE FOR SEASON | 13,671 | 8,379 | 13,506 | 7,643 | 17,615 |
| AVERAGE FOR YEAR | 8,606 | 6,373 | 7,144 | 4,930 | 10,438 |
| FISHERMEN MANUFACTURING | 450 | 250 | - | - | 110 |
| ITEM | PACIFIC | GREAT LAKES | MISSISSIPPI RIVER AND TRIBUTARIES | HAWAII | TOTAL |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| WHOLESALE AND MANUFACTURING: | | | | | |
| ESTABLISHMENTS | 558 | 247 | 443 | 20 | 4,138 |
| PERSONS ENGAGED: | | | | | |
| AVERAGE FOR SEASON | 24,855 | 3,073 | 3,008 | 365 | 92,115 |
| AVERAGE FOR YEAR | 13,478 | 1,818 | 1,704 | 308 | 54,799 |
| FISHERMEN MANUFACTURING | - | - | - | - | 820 |



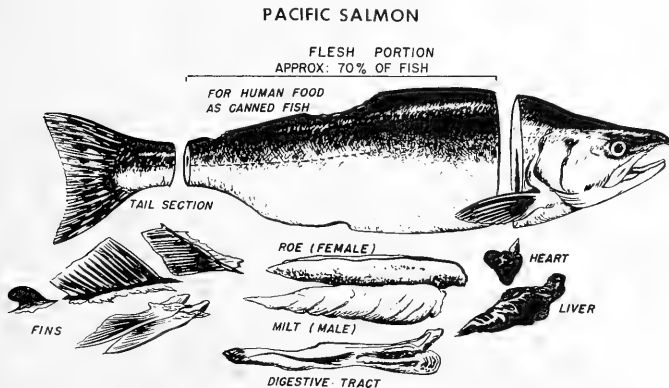
MANUFACTURED FISHERY PRODUCTS

The 1961 production of manufactured fishery products (packaged fresh and frozen, canned, cured, and industrial products) in the United States, American Samoa, and Puerto Rico was valued at \$877 million to the packers. This was \$63 million more than in the previous year. Canned products made up 48 percent of the total value; fresh and frozen packaged items, 37 percent; industrial products (principally meal, oil, and solubles), 9 percent; and cured products, 6 percent.

The canned fish and shellfish pack in 1961 totaled 1 billion pounds valued at \$423 million. The pack for human food amounted to 709 million pounds valued at \$383 million, while that for animal food and bait totaled 334 million pounds valued at \$40 million. Tuna led all other species in 1961 with a record pack of 15.8 million standard cases (311 million pounds), valued at \$189 million--\$16 million more than in 1960.

The pack of canned salmon amounted to 3.7 million cases (177 million pounds) valued at \$117 million. This was an increase of 862,000 cases and \$29 million over the 1960 total. Canning of Maine sardines was far below normal. Only 754,000 cases (17.6 million pounds) valued at \$7.6 million were packed--1.2 million cases and \$9.1 less than in 1960. The decline was caused by failure of the fish to appear in usual numbers rather than market conditions.

Production of fresh and frozen packaged fish and shellfish in 1961 amounted to 583 million pounds valued at \$327 million, a decline of 2 million pounds but an increase of \$10 million. Higher prices for processed shrimp and oysters accounted for most of the gain. Industrial fishery products, principally fish meal, oil, and solubles, were valued at nearly \$75 million--an increase of \$8 million over the previous year. Fish meal production totaled a record 311,000 tons valued at \$32 million, an increase of 21,000 tons and \$7 million compared with 1960. Over 34 million gallons of marine animal oil valued at \$14 million were produced--7 million gallons and nearly \$1 million more than in the previous year. Production of fish solubles and homogenized condensed fish amounted to 112,000 tons valued at \$5 million--an increase of 13,000 tons and \$1.4 million.



GENERAL REVIEW

MANUFACTURED FISHERY PRODUCTS, 1961

| ITEM | QUANTITY | VALUE | |
|--|----------------|------------|-----------|
| ALEWIVES: | | | |
| CANNED: | | | |
| FISH | STANDARD CASES | 52,339 | \$240,826 |
| ROE | DO | 27,291 | 372,136 |
| SALTED: | | | |
| CORNED | POUNDS | 4,500,700 | 163,517 |
| BRINED (INCLUDING FILLETS) | DO | 2,843,138 | 232,865 |
| PICKLED (INCLUDING FILLETS) | DO | 1,209,016 | 176,911 |
| SMOKED | DO | 3,811 | 329 |
| OIL | GALLONS | 12,053 | 4,433 |
| ANCHOVIES, CANNED: | | | |
| FISH | STANDARD CASES | 73,108 | 409,276 |
| PASTE | DO | 1,561 | 109,970 |
| BUTTERFISH: | | | |
| SALTED | POUNDS | 22,900 | 19,860 |
| SMOKED | DO | 455,645 | 311,329 |
| CARP, SMOKED | DO | 142,254 | 101,232 |
| CHUBS, SMOKED | DO | 8,205,206 | 4,825,242 |
| CISCO, SMOKED | DO | 127,711 | 95,528 |
| COD: | | | |
| FILLETS: | | | |
| FRESH | DO | 6,588,123 | 2,311,704 |
| FROZEN | DO | 3,143,906 | 807,980 |
| STEAKS, FRESH AND FROZEN | DO | 395,624 | 84,677 |
| CAKES, BREADED AND FROZEN | DO | 1,583,031 | 726,598 |
| SALTED (WHOLE, FILLETS, AND SHREDDED) | DO | 1,137,478 | 532,768 |
| SMOKED (WHOLE AND FILLETS) | DO | 420,615 | 149,969 |
| LUTEFISK (FROM DRIED COD) | DO | 1,176,600 | 283,100 |
| CUSK FILLETS: | | | |
| FRESH | DO | 308,872 | 88,136 |
| FROZEN | DO | 31,377 | 9,411 |
| EELS, COMMON, SMOKED | DO | 246,340 | 181,990 |
| FLOUNDER: | | | |
| FILLETS: | | | |
| FRESH | DO | 21,344,667 | 8,947,150 |
| FROZEN | DO | 10,172,305 | 3,259,810 |
| BREADED, FROZEN | DO | 139,049 | 63,148 |
| STUFFED, FROZEN | DO | 82,737 | 75,721 |
| GROUPER: | | | |
| FILLETS: | | | |
| FRESH | DO | 172,960 | 77,528 |
| FROZEN | DO | 107,870 | 46,858 |
| STEAKS: | | | |
| FRESH | DO | 33,463 | 12,573 |
| FROZEN | DO | 19,490 | 8,046 |
| HADDOCK: | | | |
| FILLETS: | | | |
| FRESH | DO | 21,248,830 | 7,138,982 |
| FROZEN | DO | 16,911,423 | 4,870,234 |
| SMOKED (INCLUDING FINNAN HADDIE) | DO | 219,370 | 80,668 |
| HAKE: | | | |
| FILLETS: | | | |
| FRESH | DO | 327,055 | 93,587 |
| FROZEN | DO | 13,167 | 2,183 |
| SALTED, WHOLE AND STRIPS | DO | 354,159 | 88,190 |
| HALIBUT: | | | |
| FILLETS, FROZEN | DO | 1,125,350 | 644,589 |
| STEAKS, FRESH AND FROZEN | DO | 8,728,317 | 4,292,694 |
| CHEEKS, FROZEN | DO | 19,749 | 6,525 |
| SMOKED (INCLUDING KIPPERED) | DO | 363,932 | 106,474 |
| HERRING: | | | |
| LAKE: | | | |
| FILLETS: | | | |
| FRESH | DO | 38,504 | 11,901 |
| FROZEN | DO | 37,000 | 9,600 |
| SALTED | DO | 2,196,744 | 380,240 |
| SMOKED | DO | 210,000 | 58,410 |
| SEA: | | | |
| MAINE SARDINES, CANNED | STANDARD CASES | 753,647 | 7,559,619 |
| SALTED: | | | |
| BRINE | POUNDS | 210,000 | 66,900 |
| PICKLED AND VINEGARED | DO | 11,508,416 | 5,593,036 |
| SPECIALTIES (IN SAUCES AND SPECIAL CURING) | DO | 7,250,595 | 4,259,008 |
| SMOKED: | | | |
| BONELESS | DO | 444,760 | 146,206 |
| OTHER (INCLUDING KIPPERED) | DO | 545,730 | 160,790 |
| MEAL AND SCRAP | TONS | 5,268 | 619,934 |
| OIL | GALLONS | 818,020 | 416,710 |

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GENERAL REVIEW

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MANUFACTURED FISHERY PRODUCTS, 1961 - Continued

| ITEM | QUANTITY | VALUE |
|--|----------------|------------|
| LAKE TROUT: | | |
| FILLETS: | | |
| FRESH | POUNDS | 74,490 |
| FROZEN | DO | 44,955 |
| SMOKED | DO | 162,050 |
| LINGCOD FILLETS: | | |
| FRESH | DO | 1,200,846 |
| FROZEN | DO | 743,024 |
| MACKEREL: | | |
| ATLANTIC: | | |
| FILLETS: | | |
| FRESH | DO | 10,000 |
| FROZEN | DO | 22,000 |
| SALTED | DO | 519,912 |
| SMOKED | DO | 77,500 |
| JACK: | | |
| CANNED: | | |
| NATURAL | STANDARD CASES | 858,886 |
| IN TOMATO SAUCE | DO | 135,450 |
| DRIED | POUNDS | 46,480 |
| PACIFIC, CANNED: | | |
| NATURAL | STANDARD CASES | 337,550 |
| IN TOMATO SAUCE | DO | 46,467 |
| MENHADEN: | | |
| MEAL AND SCRAP | TONS | 247,551 |
| OIL | GALLONS | 31,355,570 |
| SOLUBLES | TONS | 73,305 |
| MULLET, SALTED: | | |
| FISH | POUNDS | 691,657 |
| ROE | DO | 19,800 |
| OCEAN PERCH: | | |
| ATLANTIC, FILLETS: | | |
| FRESH | DO | 432,635 |
| FROZEN | DO | 37,061,108 |
| PACIFIC, FILLETS: | | |
| FRESH | DO | 1,879,824 |
| FROZEN | DO | 1,864,158 |
| PADDLEFISH, SMOKED | DO | 25,000 |
| POLLOCK: | | |
| FILLETS: | | |
| FRESH | DO | 1,671,014 |
| FROZEN | DO | 4,905,777 |
| SALTED, WHOLE AND STRIPS | DO | 6,960 |
| SMOKED | DO | 51,980 |
| ROCKFISH, FILLETS: | | |
| FRESH | DO | 3,143,841 |
| FROZEN | DO | 917,808 |
| SABLEFISH: | | |
| SMOKED | DO | 3,169,481 |
| KIPPERED | DO | 219,744 |
| SALTED | DO | 151,866 |
| SALMON: | | |
| FILLETS, FROZEN | DO | 14,393 |
| STEAKS, FRESH AND FROZEN | DO | 1,138,874 |
| CANNED: | | |
| CHINOOK OR KING | STANDARD CASES | 115,058 |
| CHUM OR KETA | DO | 614,229 |
| PINK | DO | 1,393,692 |
| RED OR SOCKEYE | DO | 1,441,673 |
| SILVER OR COHO | DO | 165,235 |
| STEELHEAD | DO | 6,839 |
| TOTAL | DO | 3,696,726 |
| SMOKED AND KIPPERED | DO | 774 |
| CAVIAR | DO | 4,568 |
| EGGS FOR BAIT | DO | 14,242 |
| SALTED: | | |
| MILD-CURED | POUNDS | 5,575,784 |
| PICKLED | DO | 410,100 |
| CAVIAR | DO | 348,341 |
| EGGS FOR FOOD AND BAIT | DO | 464,620 |
| SMOKED | DO | 11,269,329 |
| KIPPERED | DO | 1,328,458 |
| OIL (EDIBLE AND INDUSTRIAL) | GALLONS | 19,570 |
| SARDINES, PACIFIC: | | |
| CANNED | STANDARD CASES | 419,086 |
| MEAL AND SCRAP | TONS | 2,518 |
| OIL | GALLONS | 66,167 |

(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

MANUFACTURED FISHERY PRODUCTS, 1961 - Continued

| ITEM | QUANTITY | VALUE |
|--|--------------------------|-------------|
| SAUGER FILLETS: | | |
| FRESH | POUNDS 390,000 | \$304,775 |
| FROZEN | DO 102,000 | 102,040 |
| SHAD: | | |
| CANNED: | | |
| FISH | STANDARD CASES 2,900 | 32,276 |
| ROE | DO 1,717 | 214,199 |
| SMOKED | POUNDS 81,160 | 27,582 |
| SMELTS, BREADED, FROZEN | DO 183,179 | 61,996 |
| SNAPPER, RED: | | |
| FILLETS: | | |
| FRESH | DO 53,329 | 40,797 |
| FROZEN | DO 271,176 | 204,573 |
| STEAKS, FRESH AND FROZEN | DO 24,230 | 17,712 |
| SPANISH MACKEREL FILLETS: | | |
| FRESH | DO 36,600 | 13,396 |
| FROZEN | DO 1,095,490 | 336,752 |
| STURGEON: | | |
| CANNED, SMOKED | STANDARD CASES 477 | 28,640 |
| SMOKED | POUNDS 1,450,608 | 3,604,836 |
| SWORDFISH STEAKS, FROZEN | DO 948,179 | 519,323 |
| TUNA: | | |
| FROZEN SPECIALTIES (LINKS, LOAF, PIE, AND WITH NOODLES) | DO 1,391,731 | 451,981 |
| CANNED: | | |
| ALBACORE | STANDARD CASES 3,691,431 | 52,506,274 |
| LIGHT MEAT (INCLUDING TONNO) | DO 11,876,273 | 136,667,160 |
| TOTAL | DO 15,767,704 | 189,173,434 |
| SPECIALTIES (WITH NOODLES, CREAMED, SMOKED, AND WITH SHERRY) | DO 59,692 | 693,189 |
| SMOKED | POUNDS 24,416 | 17,910 |
| DRID | DO 137,287 | 92,719 |
| TUNALIKE (BONITO AND YELLOWTAIL), CANNED | STANDARD CASES 159,065 | 1,119,967 |
| WHITE BASS FILLETS: | | |
| FRESH | POUNDS 42,526 | 18,251 |
| FROZEN | DO 5,514 | 2,633 |
| WHITEFISH: | | |
| FILLETS: | | |
| FRESH | DO 373,799 | 301,775 |
| FROZEN | DO 163,412 | 105,028 |
| SMOKED | DO 3,274,166 | 2,707,361 |
| CAVIAR, CANNED | STANDARD CASES 2,859 | 151,081 |
| WHITING: | | |
| FILLETS: | | |
| FRESH | POUNDS 11,545 | 2,662 |
| FROZEN | DO 3,285,860 | 627,491 |
| SMOKED | DO 392,720 | 181,608 |
| WOLFISH FILLETS: | | |
| FRESH | DO 33,510 | 10,870 |
| FROZEN | DO 193,515 | 63,092 |
| YELLOW PERCH FILLETS: | | |
| FRESH | DO 2,314,182 | 1,070,379 |
| FROZEN | DO 1,020,160 | 431,661 |
| YELLOW PIKE FILLETS: | | |
| FRESH | DO 645,950 | 499,568 |
| FROZEN | DO 316,631 | 242,013 |
| CRABS: | | |
| BLUE, HARD (INCLUDES ROCK CRABS): | | |
| FRESH AND FROZEN COOKED MEAT | DO 17,296,010 | 15,810,261 |
| FROZEN SPECIALTIES: | | |
| DEVILED | DO 5,154,614 | 4,879,777 |
| BURGERS, CAKES, CUTLETS, LOAVES, ROLLS, AND STICKS | DO 1,740,096 | 2,362,976 |
| OTHER (BREADED SOFT SHELL, AND WITH SAUCE) | DO 102,392 | 58,039 |
| CANNED: | | |
| REGULAR | STANDARD CASES 33,266 | 702,252 |
| SPECIALTIES (DEVILED, DIP, SOUP, GUMBO, SPREAD AND SOFT SHELL) | DO 6,192 | 156,414 |
| MEAL AND SCRAP | TONS 10,440 | 422,797 |
| DUNGENESS: | | |
| FRESH AND FROZEN COOKED MEAT | POUNDS 4,246,014 | 4,429,650 |
| FROZEN SECTIONS | DO 55,600 | 16,730 |
| CANNED: | | |
| REGULAR | STANDARD CASES 54,710 | 1,508,429 |
| SMOKED | DO 34 | 3,599 |
| KINGS: | | |
| FROZEN: | | |
| COOKED MEAT | POUNDS 4,637,800 | 4,559,980 |
| SECTIONS AND LEGS | DO 672,900 | 337,310 |

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GENERAL REVIEW

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MANUFACTURED FISHERY PRODUCTS, 1961 - Continued

| ITEM | QUANTITY | VALUE |
|--|----------------|------------|
| CRABS - CONTINUED: | | |
| KING - CONTINUED: | | |
| CANNED | STANDARD CASES | 168,457 |
| TANNER MEAT, FROZEN | POUNDS | 1,400 |
| STONE CLAWS, COOKED (FROZEN) | DO | 25,463 |
| CRAWFISH BISQUE, FROZEN | DO | 56,637 |
| LOBSTERS: | | |
| NORTHERN: | | |
| FRESH AND FROZEN COOKED MEAT | DO | 877,964 |
| FROZEN SPECIALTIES (CAKES, DINNERS, IN SAUCE, PIE, STEW, AND BUTTERED) | DO | 148,032 |
| CANNED SPECIALTIES (MEAT, KNUCKLES, THERMIDOR, SPREAD, SOUPS AND STEW) | STANDARD CASES | 7,881 |
| SPINY, FRESH AND FROZEN, COOKED (WHOLE) | POUNDS | 1,476,157 |
| SHRIMP: | | |
| FRESH AND FROZEN: | | |
| HEADLESS IN SHELL (RAW) | DO | 46,416,878 |
| MEAT (INCLUDING DEVEINED): | | |
| RAW | DO | 17,235,806 |
| COOKED | DO | 2,592,492 |
| BREADED, RAW AND COOKED | DO | 73,794,754 |
| SPECIALTIES (CAKES, COCKTAIL, DINNERS, STEAKS, STUFFED, STEWS, GUMBO, ETC.) | DO | 5,743,016 |
| CANNED: | | |
| NATURAL | STANDARD CASES | 618,938 |
| SPECIALTIES (DIP, SOUPS, AND STEWS) | DO | 6,014 |
| SUN-DRIED | POUNDS | 418,043 |
| MEAL AND SCRAP | TONS | 296 |
| ABALONE STEAKS, FROZEN | POUNDS | 488,372 |
| CLAMS: | | |
| SHUCKED, FRESH AND FROZEN: | | |
| HARD (INCLUDING SURF, PISMO, AND OCEAN QUAHOG) | GALLONS | 1,967,245 |
| RAZOR | DO | 11,844 |
| SOFT | DO | 604,867 |
| FROZEN SPECIALTIES (IN TOMATO SAUCE, DEVEILED, CAKES, STUFFED, CHOWDER, AND BREADED) | POUNDS | 2,073,729 |
| CANNED: | | |
| WHOLE AND MINCED: | | |
| HARD, SOFT, AND SURF | STANDARD CASES | 438,517 |
| RAZOR (INCLUDES COCKLES IN ALASKA) | DO | 21,975 |
| CHOWDER AND JUICE (HARD, SOFT, AND SURF) | DO | 1,443,795 |
| SPECIALTIES (DIP, FRITTERS, SPREAD, IN SHELL, SAUCE, SOUPS, AND STEWS) | DO | 49,162 |
| CONCH MEAT, CANNED | DO | 5,675 |
| MUSSEL SHELL BUTTONS | GROSS | 591,767 |
| OYSTERS: | | |
| EASTERN: | | |
| SHUCKED, FRESH AND FROZEN | GALLONS | 3,743,136 |
| STEAMED (INTERMEDIATE PREPARATION) | POUNDS | 555,200 |
| FROZEN: | | |
| BREADED | DO | 2,256,089 |
| SPECIALTIES (BURGERS, PIE, STICKS, STUFFED, AND STEW) | DO | 1,055,283 |
| CANNED: | | |
| REGULAR PACK | STANDARD CASES | 379,070 |
| SPECIALTIES (BISQUE, STEW AND SOUP) | DO | 14,922 |
| SHELL PRODUCTS: | | |
| CRUSHED SHELL FOR POULTRY GRIT | TONS | 363,485 |
| LIME, BURNED AND UNBURNED | DO | 54,987 |
| PACIFIC: | | |
| SHUCKED, FRESH AND FROZEN | GALLONS | 1,013,855 |
| CANNED: | | |
| REGULAR PACK | STANDARD CASES | 66,615 |
| SMOKED | DO | 926 |
| SOUP AND STEW | DO | 125,526 |
| SHELL PRODUCTS: | | |
| CRUSHED SHELL FOR POULTRY GRIT | TONS | 22,678 |
| LIME, UNBURNED | DO | 1,685 |
| WESTERN, SHUCKED, FRESH | GALLONS | 4,276 |
| SCALLOPS: | | |
| BAY (INCLUDES CALICO), SHUCKED, FRESH AND FROZEN | DO | 183,440 |
| SEA, BREADED (RAW AND COOKED) | POUNDS | 11,363,192 |
| SPECIALTIES, FROZEN (DINNERS, AND IN SAUCE) | DO | 2,240,236 |
| SQUID, CANNED | STANDARD CASES | 114,800 |
| TERRAPIN AND TURTLE (MEAT, SOUP, AND CHOWDER) | DO | 26,928 |

(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

MANUFACTURED FISHERY PRODUCTS, 1961 - Continued

| ITEM | QUANTITY | VALUE | |
|---|----------------|------------|-------------|
| WHALE: | | | |
| MEAT, FROZEN (FOR ANIMAL FOOD) | POUNDS | 5,009,611 | \$400,905 |
| MEAL | TONS | 1,658 | 203,096 |
| OIL: | | | |
| SPERM | GALLONS | 92,818 | 63,116 |
| OTHER | DO | 369,896 | 179,223 |
| SOLUBLES | TONS | 14 | 552 |
| UNCLASSIFIED PRODUCTS: | | | |
| PACKAGED, FRESH AND FROZEN: | | | |
| FISH: | | | |
| FILLETS AND STEAKS, RAW (NOT BREADED) 1/ | POUNDS | 877,506 | 396,208 |
| STICKS, BREADED: | | | |
| RAW | DO | 4,817,772 | 1,778,909 |
| COOKED | DO | 65,006,119 | 28,320,691 |
| FILLETS, PAN-DRESSED, PIECES, PORTIONS, BREADED (RAW AND COOKED) | DO | 63,263,556 | 23,697,809 |
| PORTIONS, STEAKS, SQUARES, RAW (NOT BREADED) | DO | 2,321,694 | 1,085,856 |
| FISH AND SHELLFISH SPECIALTIES 2/ | DO | 12,910,365 | 8,288,907 |
| CANNED: | | | |
| FISH: | | | |
| CAKES (PRINCIPALLY GROUND FISH) | STANDARD CASES | 68,426 | 1,204,619 |
| GEFILTE FISH | DO | 276,524 | 4,981,500 |
| OTHER 3/ | DO | 80,947 | 1,986,963 |
| ANIMAL FOOD | DO | 6,944,775 | 39,072,156 |
| SHELLFISH MISCELLANEOUS 4/ | DO | 3,288 | 69,516 |
| CURED FISH AND SHELLFISH: | | | |
| SALTED 5/ | POUNDS | 190,028 | 33,480 |
| SMOKED 6/ | DO | 131,330 | 92,674 |
| DRIED 7/ | DO | 18,340 | 11,556 |
| MEAL AND SCRAP: | | | |
| FUR SEAL | TONS | 312 | 24,130 |
| TUNA AND MACKEREL | DO | 21,243 | 2,056,426 |
| OTHER 8/ | DO | 21,979 | 2,492,359 |
| OIL: | | | |
| BODY: | | | |
| FUR SEAL | GALLONS | 52,458 | 14,619 |
| TUNA AND MACKEREL | DO | 762,509 | 278,160 |
| UNCLASSIFIED 9/ | DO | 839,747 | 387,718 |
| LIVER AND VISCERA OIL | DO | 6,680 | 54,546 |
| FISH SOLUBLES AND HOMOGENIZED CONDENSED FISH | TONS | 38,936 | 2,325,694 |
| MARINE PEARL SHELL BUTTONS | GROSS | 1,250,400 | 2,317,503 |
| OTHER 10/ | - | - | 13,425,946 |
| GRAND TOTAL | - | - | 876,659,416 |

1/ INCLUDES BLUEFISH, BLACK AND RED DRUM, KING WHITING, MULLET, PIKE OR PICKEREL, POMPANO, SABLEFISH, SCUP, SEA BASS, GRAY AND SPOTTED SEA TROUT, SHAD, STRIPED BASS, WARSAW, WHITE PERCH, AND UNCLASSIFIED SPECIES.

2/ INCLUDES FROZEN FISH CAKES, FISH DINNERS, FISH AND CHIPS, STUFFED FISH, FISH WITH SAUCES, FISH BURGERS, BUTTERED COD AND HADDOCK STEAKS, BREADED ABALONE STEAKS AND PATTIES, CONCH MEAT NATURAL AND IN TOMATO SAUCE, MUSSELS IN SAUCE, SQUID NATURAL AND IN TOMATO SAUCE, BREADED PACIFIC OYSTERS, SHELLFISH DINNERS AND SHELLFISH SOUPS.

3/ INCLUDES CANNED SALTED COD, CREAMED HADDOCK, SMOKED HALIBUT, PACIFIC HERRING, KING MACKEREL PASTE, SALTED SALMON LIVERS, SALMON SPREAD, SARDINE COCKTAILS, SARDINE SPREAD, SMOKED SHAD, WAHOO, WHITEFISH, LUMPFISH AND STURGEON CAVIAR, UNCLASSIFIED FISH IN APPETIZERS, CHOWDER, FLAKES, GROUND FISH ROE AND SPREAD.

4/ INCLUDES CANNED CONCH CHOWDER, CRAWFISH BISQUE, MUSSELS, SCALLOPS IN SAUCE, AND UNCLASSIFIED SHELLFISH IN SOUPS AND STEMS.

5/ INCLUDES SALTED CUSK, PACIFIC MACKEREL, PACIFIC SARDINES, SPOT, AND SEA HERRING EGGS.

6/ INCLUDES SMOKED BARRACUDA, BONITO, BUFFALOFISH, DOLLY VARDEN TROUT, FLOUNDERS, KING WHITING, LINGCOD, JACK MACKEREL, MARLIN, MULLET SPREAD, TULLIBEE, WAHOO, AND UNCLASSIFIED FISH.

7/ INCLUDES DRIED TROUT AND POLLOCK.

8/ INCLUDES MEAL AND DRY SCRAP FROM ALEWIVES, ANCHOVIES, GROUND FISH, OCEAN PERCH, SALMON, THREAD HERRING, CRABS, AND HORSESHOE CRABS.

9/ INCLUDES BODY OIL FROM ANCHOVIES, HALIBUT, OCEAN PERCH, THREAD HERRING, AND UNCLASSIFIED FISH.

10/ INCLUDES AGAR-AGAR; FISH FEED PELLETS AND ANIMAL FEEDS; GLUE; IRISH MOSS EXTRACT; KELP PRODUCTS; LIQUID FERTILIZER; FRESH-WATER MUSSEL SHELL LIME, DUST, AND CHIPS; PEARL ESSENCE; AND CRAB SHELLS FOR DEVILED CRABS.

NOTE:--SOME OF THE ABOVE ITEMS HAVE BEEN MANUFACTURED FROM RAW PRODUCTS IMPORTED FROM FOREIGN COUNTRIES; THEREFORE, THE PRODUCTION CANNOT BE CORRELATED DIRECTLY WITH THE CATCH. CERTAIN ITEMS, SUCH AS PICKLED ALEWIVES, MILD CURED SALMON, STEAMED OYSTERS AND CLAMS, AND PACKAGED FROZEN SHRIMP, ETC., ARE SHOWN IN AN INTERMEDIATE AND ALSO IN A MORE ADVANCED STAGE OF PROCESSING. THE LIME AND POULTRY FEED MANUFACTURED FROM SHELL PRODUCTS WERE PRODUCED FROM LIVE AND REEF MOLLUSK SHELLS THAT ARE NOT INCLUDED IN THE CATCH STATISTICS.

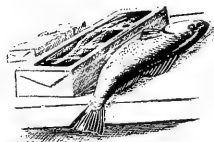
GENERAL REVIEW

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SUMMARY OF MANUFACTURED FISHERY PRODUCTS, 1961

(THOUSANDS OF DOLLARS)

| ITEM | QUANTITY | VALUE |
|--|--------------|-------|
| PACKAGED PRODUCTS, FRESH AND FROZEN: | | |
| FISH: | | |
| NOT BREADED: | | |
| FILLETS AND STEAKS, RAW, | 1,000 POUNDS | |
| OTHER (INCLUDES WHALE MEAT FOR ANIMAL FEEDING). | DO | |
| BREADED, RAW AND COOKED: | | |
| STICKS | DO | |
| FILLETS, PORTIONS, PAN DRESSED, ETC. | DO | |
| SHELLFISH: | | |
| NOT BREADED. | DO | |
| BREADED. | DO | |
| SPECIALTIES: | | |
| FISH | DO | |
| SHELLFISH. | DO | |
| TOTAL FRESH AND FROZEN | DO | |
| CANNED FISH AND SHELLFISH: | | |
| FISH, SHELLFISH, ETC., FOR HUMAN CONSUMPTION | | |
| SALMON EGGS FOR BAIT | DO | |
| ANIMAL FOOD. | DO | |
| TOTAL BAIT AND ANIMAL FOOD | DO | |
| TOTAL CANNED | DO | |
| CURED FISH AND SHELLFISH: | | |
| SALTED AND PICKLED | DO | |
| SMOKED | DO | |
| LUTEFISK (FROM DRIED COD). | DO | |
| DRIED MACKEREL, POLLOCK, TROUT, TUNA, AND SHRIMP. | DO | |
| TOTAL CURED. | DO | |
| INDUSTRIAL PRODUCTS: | | |
| MEAL AND SCRAP (2,000 POUNDS PER TON). | DO | |
| OIL, BODY AND LIVER (7.5 POUNDS PER GALLON). | DO | |
| FISH SOLUBLES AND HOMOGENIZED CONDENSED FISH | DO | |
| OYSTER SHELL LIME AND POULTRY GRIT | DO | |
| MARINE PEARL SHELL AND MUSSEL SHELL BUTTONS. | DO | |
| OTHER (AGAR-AGAR; FISH FEED PELLETS; ANIMAL FEEDS; GLUE; IRISH MOSS; EXTRACT; KELP PRODUCTS; LIQUID FERTILIZER; MUSSEL SHELL LIME, DUST, AND CHIPS; PEARL ESSENCE; AND CRAB SHELLS). | - | |
| TOTAL INDUSTRIAL PRODUCTS. | - | |
| GRAND TOTAL. | - | |



GENERAL REVIEW

CANNED FISHERY PRODUCTS

The 1961 pack of canned fishery products by 366 plants in the United States, American Samoa, and Puerto Rico amounted to 33 million standard cases (1 billion pounds) valued at \$423 million to the packers. Compared with 1960, production was down 1.5 million cases (46 million pounds). However, the value was \$35 million above that of the previous year. Increased production of high-value salmon, tuna, mackerel, crab meat, and clam products was responsible for the gain in value. The pack for human consumption was 42 million pounds above that of 1960, while the pack for bait and animal food was down 88 million pounds. The increase in the production for human food resulted from larger packs of salmon, tuna, and mackerel. The reduced pack of animal food shown in the tabulations is largely the result of a change in the classification of this item. Animal food containing less than 10 pounds of fish per standard case of 48 pounds has been excluded from the tabulations. The pack containing less than 10 pounds per case amounted to 2,473,272 standard cases in 1961. The value of two items--canned salmon and tuna--accounted for 72 percent of the total revenue received by producers of canned fishery products.

Tuna:--The pack of tuna totaled a record 15.8 million cases valued at a new high of \$189 million. Compared with 1960, this was an increase of 462,000 cases and \$16 million. The United States catch of tuna (334 million pounds) was 36 million pounds greater than in 1960 and the largest since 1950. Imports were less than in the 2 previous years. Of the total United States pack, 56 percent was canned from the domestic catch, 7 percent more than in 1960.

Salmon:--The 1961 pack of salmon amounted to 3.7 million cases valued at \$117 million. Compared with 1960, production was up 862,000 cases (30 percent) and the value, \$28.8 million (33 percent). Most of the increase occurred in Alaska. The catch of red salmon in Western Alaska and pink salmon in Southeastern Alaska was above the previous 10-year average. The Puget Sound catch was disappointing due to poor runs of red and pink salmon to the Fraser River.

Mackerel:--The 1961 pack of mackerel (1.4 million cases valued at \$8.5 million) was the largest since 1952. Compared with 1960, this was an increase of 444,000 cases and \$2.7 million. Jack mackerel accounted for 72 percent of the pack. The supply of mackerel was plentiful, and cannery set catch quotas during virtually the entire season.

Sardines:--The 1961 pack of Pacific sardines (419,000 cases valued at \$3.7 million) was the fourth smallest since World War I. Compared with 1960, the pack was down 197,000 cases or 32 percent and \$995,000 or 21 percent. Sardines failed to appear in volume off southern California. Fishermen reported the fish to be wild, making it impossible to take large catches on single sets.

In Maine, the industry was staggered by the shortest pack (754,000 cases valued at \$7.6 million) in 23 years. Compared with 1960, production was down 62 percent in volume and 55 percent in value. There was no clear-cut explanation for the shortage of fish in inshore areas. There were indications of plentiful supplies of fish offshore throughout the season. As a result of scarce supply, the Maine State Legislature extended the season an additional 5-1/2 months.

Oysters:--The 1961 oyster pack totaled 446,000 cases valued at \$5.8 million. Compared with 1960, this was an improvement of 35,000 cases in volume and \$136,000 in value. The 1961 production of oyster specialties (smoked, stew, bisque, and soup) amounted to 141,000 cases compared with 126,000 cases in 1960.

Crabs:--A record pack of 256,000 cases of crab meat valued at \$7.2 million was canned in 1961. Compared with 1960, this was an increase of 45,000 cases and \$1.8 million. The pack of blue crabs along the Atlantic and Gulf Coasts was down 39 percent. However, in Alaska, the pack of king crabs increased from 100,000 cases in 1960 to 153,000 cases in 1961. Total production of canned Dungeness and king crabs on the Pacific Coast was 42 percent greater than in 1960.

Shrimp:--The 1961 pack of shrimp amounted to 619,000 cases valued at \$12 million. Compared with 1960, production was down 35 percent in volume and 32 percent in value. The pack in the Gulf States was down 392,000 cases due to a 35-percent decrease in the South Atlantic and Gulf shrimp catch. On the Pacific Coast, the pack increased by 60,000 cases due to a 120-percent increase in the Alaska pack.

Animal food:--The 1961 pack of animal food containing 10 pounds or more of raw fish per standard case (48 one pound cans) amounted to 6.9 million cases valued at \$39 million. A pack containing less than 10 pounds of fish per case, amounting to 2.5 million cases, valued at \$9.1 million, was also canned.

GENERAL REVIEW

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SUMMARY OF PRODUCTION, BY COMMODITIES, 1961

| PRODUCT | NUMBER OF PLANTS | STANDARD CASES | POUNDS PER CASE | POUNDS | VALUE |
|--|------------------|----------------|-----------------|---------------|---------------|
| CANNED PRODUCTS: | | | | | |
| FOR HUMAN CONSUMPTION: | | | | | |
| SALMON | 111 | 3,696,726 | 48 | 177,442,848 | \$116,954,567 |
| SARDINES: | | | | | |
| MAINE | 31 | 753,647 | 23.4 | 17,635,340 | 7,559,619 |
| PACIFIC | 15 | 419,086 | 45 | 18,858,870 | 3,664,677 |
| TUNA: | | | | | |
| SOLID | 30 | 3,669,760 | 21 | 77,064,960 | 53,253,155 |
| CHUNKS | 25 | 10,522,570 | 19.5 | 205,190,115 | 123,947,982 |
| FLAKES AND GRATED | 24 | 1,575,374 | 18 | 28,356,732 | 11,972,297 |
| TOTAL | <u>1/</u> 32 | 15,767,704 | - | 310,611,807 | 189,173,434 |
| TUNALIKE FISHES: | | | | | |
| ALEWIVES | 8 | 159,065 | 21-19.5-18 | 3,023,208 | 1,119,967 |
| MACKEREL | 8 | 52,339 | 45 | 2,355,255 | 240,828 |
| SHAD | 14 | 1,376,353 | 45 | 62,025,865 | 8,528,649 |
| FISH CAKES (PRINCIPALLY GROUND FISH) | 7 | 2,900 | 45 | 130,500 | 32,276 |
| GEFILTE FISH | 5 | 89,426 | 48 | 4,244,448 | 1,204,619 |
| SALMON AND STEELHEAD TROUT, SMOKED | 5 | 276,524 | 48 | 13,273,152 | 4,981,500 |
| STURGEON, SMOKED | 18 | 774 | 48 | 37,152 | 73,731 |
| TUNA SPECIALTIES | 9 | 477 | 48 | 22,896 | 26,640 |
| ANCHOVIES | 6 | 59,692 | 48 | 2,865,216 | 693,189 |
| ANCHOVY PASTE | 4 | 73,108 | 31.25 | 2,284,625 | 409,276 |
| MISCELLANEOUS FISH SPECIALTIES | 4 | 1,551 | 48 | 74,928 | 199,570 |
| FISH ROE AND CAVIAR | 15 | 72,362 | 48 | 3,473,376 | 1,077,814 |
| TOTAL FISH | 25 | 45,020 | 48 | 2,160,960 | 1,943,640 |
| TOTAL FISH | - | 22,847,764 | - | 620,520,466 | 337,795,796 |
| CRAB MEAT: | | | | | |
| CRAB MEAT SPECIALTIES | 43 | 256,433 | 19.5 | 5,000,444 | 7,226,711 |
| LOBSTER MEAT SPECIALTIES | 11 | 8,226 | 48 | 394,848 | 160,013 |
| SHRIMP | 7 | 7,881 | 48 | 378,288 | 221,639 |
| SHRIMP SPECIALTIES | 44 | 618,938 | 15 | 2/9, 284,070 | 11,741,826 |
| TOTAL CRAB MEAT | 9 | 6,014 | 48 | 288,672 | 120,049 |
| CLAMS AND PRODUCTS: | | | | | |
| WHOLE | 11 | 14,553 | 15 | 3/218,295 | 224,518 |
| MINCED | 23 | 445,939 | 15 | 3/6,689,085 | 5,502,501 |
| CHOWDER | 16 | 1,346,912 | 30 | 3/40,407,360 | 9,552,672 |
| JUICE | 11 | 96,883 | 30 | 3/2,906,490 | 544,693 |
| TOTAL | <u>1/</u> 41 | 1,904,287 | - | 3/50,221,230 | 15,824,384 |
| CLAM SPECIALTIES: | | | | | |
| CONCH MEAT | 8 | 49,162 | 48 | 2,359,776 | 695,994 |
| OYSTERS | 3 | 5,675 | 48 | 272,400 | 142,140 |
| OYSTER SPECIALTIES: | 32 | 445,685 | 14 | 2/6,239,590 | 5,776,364 |
| SMOKED | 6 | 926 | 48 | 44,448 | 98,834 |
| STEW | 8 | 138,875 | 48 | 6,666,000 | 1,955,141 |
| BISQUE AND SOUP | 6 | 1,573 | 48 | 75,504 | 22,748 |
| SQUID | 10 | 114,800 | 48 | 5,510,400 | 567,114 |
| TURTLE SPECIALTIES (MEAT, CHOWDER, SOUP, AND STEW) | 10 | 26,928 | 48 | 1,292,544 | 390,729 |
| MISCELLANEOUS SHELLFISH SPECIALTIES | 9 | 3,288 | 48 | 157,824 | 69,516 |
| TOTAL | - | 3,588,691 | - | 68,186,038 | 45,013,202 |
| TOTAL FOR HUMAN CONSUMPTION | - | 26,436,455 | - | 708,706,504 | 382,808,998 |
| BAIT AND ANIMAL FOOD: | | | | | |
| ANIMAL FOOD | 49 | 6,944,775 | 48 | 333,349,200 | 39,072,156 |
| SALMON EGGS FOR BAIT | 10 | 14,242 | 48 | 683,616 | 955,240 |
| TOTAL BAIT AND ANIMAL FOOD | <u>1/</u> 59 | 6,959,017 | - | 334,032,816 | 40,027,396 |
| GRAND TOTAL | <u>1/</u> 366 | 33,395,472 | - | 1,042,739,320 | 422,836,394 |

1/ EXCLUSIVE OF DUPLICATION.

2/ DRAINED WEIGHT.

3/ "CUT OUT" OR "DRAINED" WEIGHTS OF CAN CONTENTS ARE GIVEN FOR WHOLE OR MINCED CLAMS, AND NET CAN CONTENTS FOR OTHER CLAM PRODUCTS.

NOTE:--LISTS OF CANNERS OF FISHERY PRODUCTS BY INDIVIDUAL COMMODITIES MAY BE OBTAINED FROM THE OFFICE OF INFORMATION, U. S. FISH AND WILDLIFE SERVICE, WASHINGTON 25, D. C.

GENERAL REVIEW

SUMMARY OF PRODUCTION, BY STATES, 1961

| STATE | CANNED FISHERY PRODUCTS | |
|---|-------------------------|--------------|
| | POUNDS | VALUE |
| MAINE | 77,094,878 | \$17,784,480 |
| MASSACHUSETTS, RHODE ISLAND, AND CONNECTICUT | 35,095,998 | 4,324,564 |
| NEW YORK | 10,771,224 | 4,160,340 |
| NEW JERSEY | 34,630,218 | 12,218,757 |
| DELAWARE AND PENNSYLVANIA | 12,768,408 | 3,433,566 |
| MARYLAND, AMERICAN SAMOA, HAWAII, AND PUERTO RICO | 91,245,055 | 50,450,208 |
| VIRGINIA | 6,091,050 | 771,416 |
| NORTH CAROLINA AND SOUTH CAROLINA | 1,998,763 | 1,335,361 |
| FLORIDA, ALABAMA, AND TEXAS | 840,283 | 1,075,940 |
| MISSISSIPPI | 134,033,327 | 16,960,129 |
| LOUISIANA | 8,672,610 | 9,692,438 |
| MICHIGAN, OHIO, AND WISCONSIN | 1,879,200 | 430,865 |
| ALASKA | 159,484,821 | 105,410,680 |
| WASHINGTON | 36,925,160 | 23,984,962 |
| OREGON | 31,512,810 | 17,935,601 |
| CALIFORNIA | 397,695,515 | 152,869,087 |
| TOTAL | 1,042,739,320 | 422,836,394 |

FACTORS USED TO CONVERT STANDARD CASES TO POUNDS

| PRODUCT | PRIOR TO 1939 | 1939 AND 1940 | 1941 | 1942 | 1943 |
|-------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | POUNDS PER CASE | POUNDS PER CASE | POUNDS PER CASE | POUNDS PER CASE | POUNDS PER CASE |
| SARDINES: | | | | | |
| MAINE | 25 | 25 | 25 | 20.3 | 20.3 |
| PACIFIC | 48 | 48 | 48 | 45 | 45 |
| TUNA AND TUNALIKE FISHES: | | | | | |
| SOLID | 24 | 24 | 21 | 22.5 | 22.5 |
| CHUNKS | - | - | - | - | - |
| FLAKES | 24 | 24 | 21 | 18 | 18 |
| MACKEREL | 48 | 48 | 48 | 45 | 45 |
| ALEWIVES | 48 | 48 | 48 | 48 | 48 |
| ANCHOVIES | 48 | 48 | 48 | 48 | 48 |
| SHAD | 48 | 48 | 48 | 48 | 48 |
| FISH FLAKES | 48 | 48 | 48 | 48 | 48 |
| OYSTERS | 15 | 15 | 15 | 15 | 22.5 |
| SHRIMP: | | | | | |
| WET PACK | 17.25 | 17.25 | 17.25 | 21 | 21 |
| DRY PACK | 15 | 15 | 15 | 19.5 | 19.5 |
| CLAM PRODUCTS: | | | | | |
| WHOLE AND MINCED | 15 | 15 | 15 | 15 | 15 |
| JUICE, CHOWDER, BROTH, ETC. | 30 | 30 | 30 | 30 | 30 |
| CRABS | 48 | 39 | 39 | 39 | 39 |
| ALL OTHERS | 48 | 48 | 48 | 48 | 48 |

| PRODUCT | 1944 TO 1947 | 1948 TO 1951 | 1952 | 1953 TO 1957 | 1958 TO 1961 |
|-------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | POUNDS PER CASE | POUNDS PER CASE | POUNDS PER CASE | POUNDS PER CASE | POUNDS PER CASE |
| SARDINES: | | | | | |
| MAINE | 20.3 | 20.3 | 20.3 | 20.3 | 23.4 |
| PACIFIC | 45 | 45 | 45 | 45 | 45 |
| TUNA AND TUNALIKE FISHES: | | | | | |
| SOLID | 21 | 21 | 21 | 21 | 21 |
| CHUNKS | (1) | (1) | 19.5 | 19.5 | 19.5 |
| FLAKES | 18 | 18 | 18 | 18 | 18 |
| MACKEREL | 45 | 45 | 45 | 45 | 45 |
| ALEWIVES | 45 | 45 | 45 | 45 | 45 |
| ANCHOVIES | 48 | 48 | 48 | 31.25 | 31.25 |
| SHAD | 45 | 45 | 45 | 45 | 45 |
| FISH FLAKES | 42 | 42 | 42 | 48 | 48 |
| OYSTERS | 22.5 | 14 | 14 | 14 | 14 |
| SHRIMP: | | | | | |
| WET PACK | 21 | 15 | 15 | 15 | 15 |
| DRY PACK | - | - | 15 | 15 | 15 |
| CLAM PRODUCTS: | | | | | |
| WHOLE AND MINCED | 15 | 15 | 15 | 15 | 15 |
| JUICE, CHOWDER, BROTH, ETC. | 30 | 30 | 30 | 30 | 30 |
| CRABS | 39 | 19.5 | 19.5 | 19.5 | 19.5 |
| ALL OTHERS | 48 | 48 | 48 | 48 | 48 |

1/ PRIOR TO 1952 CHUNK PACK TUNA WAS INCLUDED WITH THE FLAKE PACK.
 NOTE:--THE FACTORS LISTED ABOVE WERE USED IN CONVERTING THE STANDARD CASES REPORTED IN THE CANNED FISHERY PRODUCTS DATA PUBLISHED IN THE DIGESTS FOR THE YEARS INDICATED.

GENERAL REVIEW

PLANTS PRODUCING CANNED FISHERY PRODUCTS, 1961

| AREA AND STATE | NUMBER OF PLANTS |
|---|---------------------|
| NEW ENGLAND: | |
| MAINE | 41 |
| MASSACHUSETTS | 7 |
| RHODE ISLAND | 1 |
| CONNECTICUT | 1 |
| TOTAL | 50 |
| MIDDLE ATLANTIC: | |
| NEW YORK | 9 |
| NEW JERSEY | 14 |
| PENNSYLVANIA | 7 |
| DELAWARE | 1 |
| TOTAL | 31 |
| CHESAPEAKE BAY: | |
| MARYLAND | 4 |
| VIRGINIA | 9 |
| TOTAL | 13 |
| SOUTH ATLANTIC AND GULF: | |
| NORTH CAROLINA | 6 |
| SOUTH CAROLINA | 3 |
| FLORIDA | 2 |
| ALABAMA | 1 |
| MISSISSIPPI | 15 |
| LOUISIANA | 28 |
| TEXAS | 4 |
| TOTAL | 59 |
| GREAT LAKES AND MISSISSIPPI RIVER: | |
| MICHIGAN | 2 |
| OHIO | 1 |
| WISCONSIN | 1 |
| TOTAL | 4 |
| PACIFIC COAST: | |
| ALASKA | 91 |
| WASHINGTON | 68 |
| OREGON | 17 |
| CALIFORNIA | 29 |
| TOTAL | 205 |
| HAWAII | 1 |
| AMERICAN SAMOA | 1 |
| PUERTO RICO | 2 |
| GRAND TOTAL | 366 |



GENERAL REVIEW

PACK OF SALMON, BY STATES, 1961

| SPECIES AND CAN SIZE | ALASKA | | | | | | WASHINGTON | | | | | | OREGON | | | | | | TOTAL | | | | | |
|----------------------|--------------|----------------|------------|--------------|----------------|------------|--------------|----------------|-------------|--------------|----------------|-------------|----------------|----------------|--------|--------------|----------------|-------|--------------|----------------|------------|--------|-----------|--|
| | CASES | | VALUE | CASES | | VALUE | CASES | | VALUE | CASES | | VALUE | CASES | | VALUE | CASES | | VALUE | CASES | | VALUE | | | |
| | 1 POUND TALL | 1/2 POUND FLAT | | 1 POUND TALL | 1/2 POUND FLAT | | 1 POUND TALL | 1/2 POUND FLAT | | 1 POUND TALL | 1/2 POUND FLAT | | 1 POUND TALL | 1/2 POUND FLAT | | 1 POUND TALL | 1/2 POUND FLAT | | 1 POUND TALL | 1/2 POUND FLAT | | | | |
| CHUM OR KING: | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 POUND TALL | 15,769 | | \$463,930 | 1,788 | | \$53,654 | 1/1,903 | | \$1,013,217 | 19,460 | | \$620,801 | 37,764 | | 9,186 | | 87,470 | | 3,778,125 | 1,436,969 | | 32,366 | | |
| 1/2 POUND FLAT | 37,764 | | 1,466,670 | 9,186 | | 363,247 | 27,400 | | 1,946,208 | 27,400 | | 439,469 | 1/4 POUND FLAT | | 9,952 | | 387,521 | | 7,141 | | 967 | | | |
| 1/4 POUND FLAT | 1 | | 50 | 837 | | 51,886 | 6,188 | | 27,886 | 6,188 | | 32,366 | 4 POUND TALL | | 4,500 | | - | | 115,056 | | 4,870,781 | | | |
| TOTAL | 53,684 | | 1,937,150 | 12,763 | | 496,685 | 48,611 | | 2,436,946 | 48,611 | | 4,870,781 | | | | | | | | | | | | |
| CHUM OR KETA: | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 POUND TALL | 423,603 | | 10,960,010 | 67,991 | | 1,653,632 | 967 | | 25,662 | 521,161 | | 12,659,934 | 1/2 POUND FLAT | | 10,130 | | 20,412 | | 52,616 | | 1,436,969 | | 791 | |
| 1/2 POUND FLAT | 41,652 | | 1,122,570 | 10,130 | | 293,910 | 727 | | 20,412 | 52,616 | | 1,436,969 | 4 POUND TALL | | 29,313 | | - | | 40,202 | | 967,666 | | | |
| TOTAL | 523,568 | | 12,626,790 | 88,947 | | 2,209,677 | 1,714 | | 46,074 | 614,229 | | 15,084,741 | | | | | | | | | | | | |
| PINK: | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 POUND TALL | 1,137,970 | | 30,674,930 | 16,321 | | 441,128 | - | | 4,500 | 1,154,291 | | 31,319,058 | 1/2 POUND FLAT | | 53,012 | | 36,468 | | 126,162 | | 3,862,462 | | 1,960,926 | |
| 1/2 POUND FLAT | 73,010 | | 2,223,080 | 1,540 | | 694,542 | 1,440 | | 36,468 | 72,511 | | 3,862,462 | 4 POUND TALL | | 24,259 | | 658,466 | | 79,568 | | 1,960,926 | | | |
| TOTAL | 1,257,299 | | 34,423,490 | 95,242 | | 2,799,569 | 1,151 | | 42,908 | 1,353,692 | | 37,265,967 | | | | | | | | | | | | |
| RED OR SORKEYE: | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 POUND TALL | 1,012,859 | | 34,270,010 | 4,258 | | 146,974 | - | | 90,759 | 1,017,117 | | 34,416,964 | 1/2 POUND FLAT | | 83,760 | | 3,966,928 | | 356,439 | | 15,860,617 | | 7,736 | |
| 1/2 POUND FLAT | 270,961 | | 11,800,930 | 38,778 | | 2,261,363 | 2,303 | | 146,633 | 47,030 | | 2,719,736 | 4 POUND TALL | | 5,949 | | 528,423 | | 21,087 | | 707,223 | | | |
| TOTAL | 1,295,545 | | 46,561,460 | 142,107 | | 6,905,708 | 4,021 | | 237,392 | 1,441,673 | | 53,704,560 | | | | | | | | | | | | |
| SILVER OR COHO: | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 POUND TALL | 59,635 | | 1,777,350 | 7,759 | | 230,279 | 275 | | 8,673 | 67,669 | | 2,016,302 | 1/2 POUND FLAT | | 23,948 | | 836,075 | | 46,581 | | 1,604,032 | | 455 | |
| 1/2 POUND FLAT | 14,154 | | 502,960 | 7,468 | | 270,010 | 12,829 | | 652,650 | 20,312 | | 1,604,032 | 4 POUND TALL | | 665 | | 731,584 | | 39,093 | | 970,024 | | | |
| TOTAL | 74,412 | | 2,280,440 | 22,681 | | 731,584 | 21,513 | | 994,966 | 165,235 | | 5,700,656 | | | | | | | | | | | | |
| STEELHEAD: | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/2 POUND FLAT | - | | - | 206 | | 8,240 | 1,660 | | 78,215 | 1,866 | | 80,455 | 4 POUND TALL | | - | | - | | 247,407 | | 4,973 | | 467 | |
| TOTAL | - | | - | 206 | | 8,240 | 6,633 | | 319,622 | 6,839 | | 327,662 | | | | | | | | | | | | |
| GRAND TOTAL | 3,211,962 | | 99,296,650 | 401,121 | | 14,580,389 | 83,643 | | 4,077,528 | 3,696,726 | | 116,954,567 | | | | | | | | | | | | |

1/ INCLUDES A SMALL QUANTITY IN OVAL CANS.

2/ INCLUDES A SMALL PACK PRODUCED IN CALIFORNIA.

NOTE:--STANDARD CASES[®] REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY EIGHT 1 POUND CANS, EACH CONTAINING 16 OUNCES. SALMON WERE CANNED IN 32 PLANTS IN WASHINGTON, 9 IN OREGON, 1 IN CALIFORNIA, AND 69 IN ALASKA. THE PACK OF SMOKED SALMON IS INCLUDED IN THE TABLE OF MISCELLANEOUS CANNED PRODUCTS.

GENERAL REVIEW

ALASKA PACK OF SALMON, BY DISTRICTS, 1961

(STANDARD CASES)

| SPECIES AND CAN SIZE | SOUTHEASTERN ALASKA | | | CENTRAL ALASKA | | | WESTERN ALASKA | | | TOTAL |
|------------------------------|---------------------|-------------------|----------------|-------------------|------------------|-------------------|------------------|-------------------|--|-------|
| | CASES | VALUE | CASES | VALUE | CASES | VALUE | CASES | VALUE | | |
| CHINOOK OR KING: | | | | | | | | | | |
| 1 POUND TALL | 401 | \$11,970 | 3,318 | \$97,660 | 12,050 | \$354,200 | 15,769 | \$453,930 | | |
| 1/2 POUND FLAT | 62 | 1,950 | 13,967 | 532,310 | 23,735 | 914,410 | 37,764 | 1,466,670 | | |
| 1/4 POUND FLAT | - | - | - | 50 | - | - | 1 | 50 | | |
| 4 POUND TALL | - | - | - | - | - | - | 150 | 4,500 | | |
| TOTAL | 463 | 13,920 | 17,286 | 650,220 | 35,935 | 1,273,110 | 53,684 | 1,937,150 | | |
| CHUM OR KETA: | | | | | | | | | | |
| 1 POUND TALL | 239,548 | 5,819,410 | 165,402 | 4,023,560 | 47,653 | 1,137,040 | 452,603 | 10,860,010 | | |
| 1/2 POUND FLAT | 12,593 | 361,530 | 21,367 | 575,120 | 7,812 | 206,280 | 41,652 | 1,126,570 | | |
| 1/4 POUND FLAT | 26,591 | 663,530 | 24,669 | 624,120 | 137 | 3,560 | 29,318 | 726,210 | | |
| 4 POUND TALL | - | - | - | - | - | - | - | - | | |
| TOTAL | 276,572 | 6,821,210 | 189,394 | 4,660,700 | 55,602 | 1,346,880 | 923,568 | 12,828,790 | | |
| PINK: | | | | | | | | | | |
| 1 POUND TALL | 749,779 | 20,427,940 | 387,701 | 10,440,190 | 490 | 9,800 | 1,137,970 | 30,577,930 | | |
| 1/2 POUND FLAT | 43,598 | 1,332,560 | 23,452 | 690,530 | - | - | 53 | 1,251,010 | | |
| 1/4 POUND FLAT | 38,239 | 1,096,240 | 8,080 | 226,240 | - | - | 46 | 1,265,680 | | |
| 4 POUND TALL | - | - | - | - | - | - | - | - | | |
| TOTAL | 831,576 | 22,856,740 | 425,233 | 11,556,950 | 490 | 9,800 | 1,237,259 | 34,423,490 | | |
| RED OR SOCKEYE: | | | | | | | | | | |
| 1 POUND TALL | 44,323 | 1,525,410 | 141,475 | 4,791,320 | 827,061 | 27,953,280 | 1,012,859 | 34,270,010 | | |
| 1/2 POUND FLAT | 17,949 | 793,510 | 128,529 | 5,793,570 | 124,563 | 5,286,850 | 270,961 | 11,600,930 | | |
| 1/4 POUND FLAT | 621 | 27,500 | 5,328 | 284,220 | - | - | 5,949 | 311,720 | | |
| 4 POUND TALL | 3,339 | 103,280 | - | 70 | 2,434 | 75,450 | 5,776 | 176,800 | | |
| TOTAL | 66,132 | 2,414,700 | 275,335 | 10,831,180 | 954,078 | 33,315,560 | 1,295,545 | 46,561,460 | | |
| SILVER OR COHO: | | | | | | | | | | |
| 1 POUND TALL | 31,491 | 952,710 | 27,914 | 817,660 | 230 | 6,960 | 59,635 | 1,777,350 | | |
| 1/2 POUND FLAT | 8,280 | 298,460 | 4,006 | 141,930 | 1,868 | 62,550 | 14,154 | 502,960 | | |
| 1/4 POUND FLAT | 6,893 | 221,820 | - | 164,030 | - | - | 665 | 271,010 | | |
| 4 POUND TALL | - | - | 501 | - | 18 | - | 7,412 | 236,440 | | |
| TOTAL | 47,309 | 1,500,020 | 32,421 | 975,620 | 2,136 | 70,120 | 81,666 | 2,545,760 | | |
| GRAND TOTAL | 1,224,052 | 33,406,490 | 939,669 | 28,674,670 | 1,048,241 | 36,015,490 | 3,211,962 | 99,296,650 | | |

SEE NOTE ON PAGE 40.

GENERAL REVIEW

WASHINGTON AND OREGON SALMON PACK, BY DISTRICTS, 1961

(STANDARD CASES)

| SPECIES | PUGET SOUND | | COLUMBIA RIVER | | COASTAL | | TOTAL | |
|--------------------------|-------------|------------|----------------|-------------|---------|----------|---------|-------------|
| | CASES | VALUE | CASES | VALUE | CASES | VALUE | CASES | VALUE |
| CHINOOK OR KING . . . | 4,633 | \$159,030 | 56,351 | \$2,754,543 | 1/390 | \$20,058 | 61,374 | \$2,933,631 |
| CHUM OR KETA | 87,032 | 2,163,126 | 2,527 | 65,992 | 1,102 | 26,833 | 90,661 | 2,255,951 |
| PINK | 95,242 | 2,799,569 | 1,148 | 42,792 | 3 | 116 | 96,393 | 2,842,477 |
| RED OR SOCKEYE | 140,478 | 6,825,683 | 4,463 | 259,724 | 1,187 | 57,693 | 146,128 | 7,143,100 |
| SILVER OR COHO | 58,515 | 2,025,500 | 24,723 | 1,124,473 | 131 | 4,923 | 83,369 | 3,154,896 |
| STEELHEAD | - | - | 6,639 | 327,862 | - | - | 6,639 | 327,862 |
| TOTAL | 385,900 | 13,972,908 | 96,051 | 4,575,386 | 2,813 | 109,623 | 484,764 | 18,657,917 |

1/ INCLUDES A SMALL QUANTITY PRODUCED IN CALIFORNIA.

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT 1 POUND CANS, EACH CONTAINING 16 OUNCES.

PUGET SOUND SALMON PACK, BY ORIGIN OF FISH, 1961

(STANDARD CASES)

| SPECIES | PUGET SOUND FISH | CANADIAN FISH | ALASKAN FISH | TOTAL FISH |
|---------------------------|------------------|---------------|--------------|------------|
| | CASES | CASES | CASES | CASES |
| CHINOOK OR KING | 2,486 | 343 | 1,802 | 4,633 |
| CHUM OR KETA | 18,192 | 33,413 | 35,427 | 87,032 |
| PINK | 66,926 | - | 28,316 | 95,242 |
| RED OR SOCKEYE | 117,647 | - | 22,831 | 140,478 |
| SILVER OR COHO | 47,291 | 2,565 | 8,659 | 58,515 |
| TOTAL | 252,544 | 36,321 | 97,035 | 385,900 |

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT 1 POUND CANS, EACH CONTAINING 16 OUNCES.

PACK OF MAINE SARDINES, 1961 1/

| STYLE OF PACK | STANDARD CASES | VALUE | CAN CONTENTS AND CASE SIZE | ACTUAL CASES | VALUE |
|---------------------------|----------------|-------------|--|--------------|-------------|
| IN SOYBEAN OIL | 631,542 | \$6,599,799 | 3-3/4 OUNCES NET (100 CANS) . . | 675,589 | \$7,083,778 |
| IN MUSTARD SAUCE | 55,916 | 525,925 | 12 OUNCES NET (48 CANS) | 1,987 | 23,999 |
| IN TOMATO SAUCE | 57,246 | 346,870 | 15 OUNCES NET (48 CANS) | 32,257 | 347,620 |
| OTHER 2/ | 8,943 | 86,025 | OTHER SIZES (CONVERTED TO 3-3/4 OUNCES NET - 100 CANS). | 12,969 | 104,222 |
| TOTAL | 753,647 | 7,559,619 | TOTAL | 722,802 | 7,559,619 |

1/ INCLUDES SEA HERRING.

2/ INCLUDES SMALL QUANTITIES PACKED NATURAL, AND IN OLIVE OIL, PEANUT OIL, SMOKED IN SOY OIL, AND WITH CHILI PEPPERS.

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE UNIFORM BASIS OF ONE HUNDRED 1/4 OIL CANS (3-3/4 OUNCES NET) TO THE CASE. SARDINES WERE CANNED IN 31 PLANTS IN MAINE.

PACK OF PACIFIC SARDINES, 1961

| STYLE OF PACK | STANDARD CASES | VALUE | CAN CONTENTS AND CASE SIZE | ACTUAL CASES | VALUE |
|--|----------------|-------------|--|--------------|-------------|
| IN TOMATO SAUCE | 246,146 | \$2,265,089 | 1 POUND CAN: | | |
| IN MUSTARD SAUCE | 42,611 | 391,438 | 15 OUNCES NET, OVAL (48 CANS) | 281,046 | \$2,585,970 |
| WITHOUT SAUCE | 116,619 | 760,423 | 15 OUNCES NET, TALL (48 CANS) | 116,739 | 761,323 |
| OTHER (IN TOMATO SAUCE WITH OLIVE OIL, FILLETS IN BARBEQUE SAUCE, AND FILLETS WITHOUT SAUCE) | 13,710 | 247,127 | OTHER SIZES (CONVERTED TO STANDARD CASES) | 21,301 | 316,784 |
| TOTAL | 419,086 | 3,664,077 | TOTAL | 419,086 | 3,664,077 |

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE UNIFORM BASIS OF FORTY-EIGHT 1 POUND CANS, EACH CONTAINING 15 OUNCES NET WEIGHT. SARDINES WERE CANNED IN 15 PLANTS IN CALIFORNIA.

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PACK OF TUNA, 1961

(STANDARD CASES)

| SPECIES | CALIFORNIA | | WASHINGTON AND OREGON | | ATLANTIC COAST, HAWAII, AND TERRITORIES | | TOTAL | |
|---|-------------------|--------------------|-----------------------|-------------------|---|-------------------|-------------------|--------------------|
| | CASES | VALUE | CASES | VALUE | CASES | VALUE | CASES | VALUE |
| ALBACORE: | | | | | | | | |
| SOLID PACK. | 1,141,636 | \$16,006,577 | 616,375 | \$9,269,356 | 816,999 | \$12,614,534 | 2,575,010 | \$37,890,467 |
| CHUNKS. | 266,810 | 3,369,078 | 89,290 | 1,121,412 | 488,414 | 6,415,694 | 844,514 | 10,966,184 |
| FLAKES AND GRATED | 210,625 | 1,652,619 | 91,596 | 674,174 | 169,686 | 1,382,630 | 471,907 | 3,709,623 |
| TOTAL. | 1,619,071 | 21,028,274 | 797,261 | 11,064,942 | 1,475,099 | 20,413,058 | 3,891,431 | 52,506,274 |
| LIGHT MEAT: | | | | | | | | |
| SOLID PACK. | 753,621 | 10,782,426 | 6,208 | 85,872 | 1/163,183 | 1/2,197,395 | 923,012 | 13,065,693 |
| CHUNKS. | 7,208,803 | 85,157,420 | 441,379 | 4,577,462 | 2,027,874 | 23,306,896 | 9,678,056 | 113,041,798 |
| FLAKES AND GRATED | 792,335 | 5,999,701 | 16,818 | 125,618 | 294,314 | 2,137,355 | 1,103,467 | 8,266,674 |
| TOTAL. | 8,754,759 | 101,939,547 | 464,405 | 4,788,972 | 2,485,371 | 27,641,646 | 11,704,535 | 134,370,165 |
| UNCLASSIFIED, TONNO, SOLID PACK. | 171,738 | 2,296,995 | - | - | (1) | (1) | 171,738 | 2,296,995 |
| GRAND TOTAL. | 10,545,568 | 125,264,816 | 1,261,666 | 15,853,914 | 3,960,470 | 48,054,704 | 15,767,704 | 189,173,434 |

1/ THE PACK OF TONNO IS INCLUDED WITH THE SOLID PACK OF LIGHT MEAT TUNA.

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT NO. 1/2 TUNA CANS TO THE CASE, EACH CONTAINING 7 OUNCES NET WEIGHT OF SOLID PACK, 6-1/2 OUNCES NET WEIGHT OF CHUNKS, AND 6 OUNCES NET WEIGHT OF FLAKES OR GRATED. DIETETIC AND BABY FOOD TUNA PACKS ARE INCLUDED IN THESE TOTALS. TUNA WERE CANNED IN 13 PLANTS IN CALIFORNIA, 7 PLANTS IN OREGON, 5 PLANTS IN WASHINGTON, 2 PLANTS IN PUERTO RICO, AND 1 PLANT EACH IN MAINE, PENNSYLVANIA, MARYLAND, AMERICAN SAMOA, AND HAWAII. DATA ON THE PACK OF TUNA AND NOODLES AND OTHER TUNA SPECIALTIES CAN BE FOUND IN THE TABLE OF MISCELLANEOUS CANNED FISHERY PRODUCTS.

PACK OF TUNA, BY CAN SIZES, 1961

| CAN AND CASE SIZE | ACTUAL CASES | VALUE |
|--|-------------------|--------------------|
| 4 POUND. | 66,021 | \$1,788,610 |
| 1 POUND. | 341,844 | 7,801,945 |
| 1/2 POUND. | 13,415,472 | 153,633,529 |
| 1/4 POUND. | 985,323 | 8,390,167 |
| 4 OUNCES. | 70,227 | 1,041,058 |
| 9-1/4 OUNCES. | 1,217,063 | 10,827,801 |
| OTHER SIZES (CONVERTED TO STANDARD CASES). | 94,296 | 690,324 |
| TOTAL. | 16,190,246 | 189,173,434 |

PACK OF TUNALIKE FISHES, 1961

| SPECIES | STANDARD CASES | VALUE |
|--------------------------------|----------------|------------------|
| BONITO AND YELLOWTAIL: | | |
| SOLID PACK AND CHUNKS. | 103,718 | \$741,348 |
| FLAKES. | 55,347 | 376,619 |
| TOTAL. | 159,065 | 1,119,967 |

NOTE:--"STANDARD CASES" REPRESENT THE EQUIVALENT OF FORTY-EIGHT NO. 1/2 TUNA CANS TO THE CASE, EACH CONTAINING 7 OUNCES NET WEIGHT OF SOLID PACK, 6 TO 6-1/2 OUNCES NET WEIGHT OF CHUNKS, AND 6 OUNCES NET WEIGHT OF FLAKES OR GRATED. TUNALIKE FISHES WERE CANNED IN 7 PLANTS IN CALIFORNIA AND 1 PLANT IN PUERTO RICO.

GENERAL REVIEW

PACK OF ALEWIVES, 1961

| STATE AND NUMBER OF PLANTS | STANDARD CASES | VALUE |
|--|----------------|----------|
| MARYLAND (1), NORTH CAROLINA (2) | 7,345 | \$35,721 |
| VIRGINIA (5) | 44,994 | 205,107 |
| TOTAL (6) | 52,339 | 240,828 |

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS OF 15 OUNCES EACH.

PACK OF MACKEREL, 1961

| ITEM | STANDARD CASES | VALUE |
|---------------------------|----------------|-------------|
| JACK MACKEREL: | | |
| NATURAL | 858,886 | \$4,951,958 |
| IN TOMATO SAUCE | 135,450 | 1,276,501 |
| TOTAL | 994,336 | 6,228,459 |
| PACIFIC MACKEREL: | | |
| NATURAL | 337,550 | 1,996,605 |
| IN TOMATO SAUCE | 46,467 | 303,585 |
| TOTAL | 384,017 | 2,300,190 |
| GRAND TOTAL | 1,378,353 | 8,528,649 |

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS OF 15 OUNCES EACH. MOST OF THE PACK WAS CANNED IN 15 OUNCE CANS. MACKEREL WERE CANNED IN 14 PLANTS IN CALIFORNIA.

PACK OF ANCHOVIES, 1961

| STYLE OF PACK | STANDARD CASES | VALUE |
|---|----------------|-----------|
| ANCHOVIES, IN TOMATO SAUCE AND WITHOUT SAUCE. | 73,108 | \$409,276 |

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE UNIFORM BASIS OF 100 CANS, EACH CAN CONTAINING 5 OUNCES. ANCHOVIES WERE CANNED IN 4 PLANTS IN CALIFORNIA.

PACK OF SHAD, 1961

| STATE AND NUMBER OF PLANTS | STANDARD CASES | VALUE |
|--|----------------|-------------------|
| OREGON (4), NORTH CAROLINA (1), WASHINGTON (2) | 2,219 681 | \$23,863 8,693 |
| TOTAL (7) | 2,900 | 32,276 |

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS OF 15 OUNCES EACH.

PACK OF ANIMAL FOOD FROM FISHERY PRODUCTS, 1961 ^{1/}

| STATE AND NUMBER OF PLANTS | STANDARD CASES | VALUE | CAN CONTENTS AND CASE SIZE | ACTUAL CASES | VALUE |
|--|----------------|-------------|---|--------------|------------|
| MAINE (3), MICHIGAN (1) | 659,294 | \$5,452,570 | 6 OUNCES NET (48 CANS) | 136,079 | \$464,043 |
| MASSACHUSETTS (3) | 628,838 | 2,867,020 | 8 OUNCES NET (48 CANS) | 4,428,848 | 16,672,765 |
| NEW YORK (1), NEW JERSEY (1), AND PENNSYLVANIA (3) | 141,369 | 635,410 | 15 OUNCES NET (48 CANS) | 3,359,693 | 15,335,312 |
| MARYLAND (1), VIRGINIA (1), AND NORTH CAROLINA (1) | 111,164 | 722,404 | 15-1/2 OUNCES NET (48 CANS) | 447,222 | 2,304,290 |
| MISSISSIPPI (5) | 2,735,505 | 13,558,675 | 16 OUNCES (48 CANS) | 726,443 | 2,525,612 |
| WASHINGTON (2), OREGON (6) | 247,802 | 1,335,117 | OTHER SIZES CONVERTED TO STANDARD CASES (16 OUNCES NET - 48 CANS) | 369,920 | 1,570,134 |
| CALIFORNIA (18), AMERICAN SAMOA (1), AND PUERTO RICO (2) | 2,220,803 | 14,500,760 | | | |
| TOTAL (49) | 6,944,775 | 39,072,156 | TOTAL | 9,468,205 | 39,072,156 |

^{1/} EACH STANDARD CASE CONTAINS 10 OR MORE POUNDS OF FISH. AN ADDITIONAL PACK (2,473,272 STANDARD CASES VALUED AT \$9,005,495) HAD LESS THAN 10 POUNDS OF FISH PER STANDARD CASE AND IS NOT INCLUDED IN THE ABOVE PACK OF 6,944,775 STANDARD CASES.

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS, EACH CONTAINING 16 OUNCES.

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PACK OF FISH ROE AND CAVIAR, 1961

| PRODUCT AND NUMBER OF PLANTS | STANDARD CASES | VALUE | STATES OF PRODUCTION AND NUMBER OF PLANTS |
|---|----------------|-----------|--|
| ALEWIFE ROE (14) | 27,291 | \$372,136 | MARYLAND (1), VIRGINIA (9), AND NORTH CAROLINA (4) |
| SHAD ROE (7) | 1,717 | 214,199 | MARYLAND (1), WASHINGTON (2), OREGON (3), AND CALIFORNIA (1) |
| SALMON CAVIAR (3) | 4,568 | 297,075 | NEW YORK (3) |
| WHITEFISH (4), LUMPFISH (1), AND STURGEON CAVIAR (1), AND GROUND FISH ROE (1) | 11,444 | 1,060,230 | MASSACHUSETTS (1), NEW YORK (3), AND WISCONSIN (1) |
| TOTAL EDIBLE ROE AND CAVIAR (25) 1/ | 45,020 | 1,943,640 | |
| SALMON EGGS FOR BAIT (10) | 14,242 | 955,240 | WASHINGTON (10) |
| GRAND TOTAL (35) 1/ | 59,262 | 2,898,880 | |

1/ EXCLUSIVE OF DUPLICATION.

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS, EACH CONTAINING 16 OUNCES.

PACK OF FISH ROE AND CAVIAR, BY STATES, 1961

| STATE AND NUMBER OF PLANTS | STANDARD CASES | VALUE |
|---|----------------|-------------|
| MASSACHUSETTS (1), AND NEW YORK (3) | 14,562 | \$1,269,889 |
| MARYLAND (1), AND VIRGINIA (9) | 18,379 | 251,179 |
| NORTH CAROLINA (4) | 8,937 | 122,550 |
| WASHINGTON (12) | 14,361 | 969,955 |
| OREGON (3), WISCONSIN (1), AND CALIFORNIA (1) | 3,023 | 265,307 |
| TOTAL (35) | 59,262 | 2,898,880 |

PACK OF CRAB MEAT, 1961

| STATE AND NUMBER OF PLANTS | SPECIES | STANDARD CASES | VALUE | CAN CONTENTS AND CASE SIZE | ACTUAL CASES | VALUE |
|---|--------------------|----------------|-----------|---|--------------|-----------|
| ATLANTIC AND GULF STATES: MAINE (1), NORTH CAROLINA (1), SOUTH CAROLINA (1), ALABAMA (1), LOUISIANA (1), AND TEXAS (1) | BLUE 1/ | 27,048 | \$577,202 | 3-1/2 OUNCES NET (24 CANS) | 8,348 | \$75,120 |
| MISSISSIPPI (3) | | 6,218 | 125,050 | 5 OUNCES NET (24 CANS) | 54,467 | 704,610 |
| TOTAL (3) | | 33,266 | 702,252 | 6-1/2 OUNCES NET (24 CANS) | 226,561 | 3,142,542 |
| | | | | 6-1/2 OUNCES NET (48 CANS) | 66,008 | 1,776,395 |
| | | | | 13 OUNCES NET (24 CANS) | 34,494 | 985,760 |
| | | | | OTHER SIZES CONVERTED TO STANDARD CASES | 19,457 | 542,281 |
| | | | | TOTAL | 409,335 | 7,226,711 |
| PACIFIC STATES: WASHINGTON (9) | AND KING DUNGENESS | 39,304 | 1,047,268 | | | |
| OREGON (3), CALIFORNIA (1) | DUNGENESS | 13,825 | 371,691 | | | |
| ALASKA (9) | DUNGENESS | 17,319 | 530,320 | | | |
| ALASKA (13) | KING | 152,719 | 4,574,980 | | | |
| TOTAL, EXCLUSIVE OF DUPLICATION (34) | - | 223,167 | 6,524,459 | | | |
| GRAND TOTAL (43) | | 256,433 | 7,226,711 | | | |

1/ INCLUDES A SMALL QUANTITY OF ROCK CRABS PACKED IN MAINE.

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS TO THE CASE, EACH CONTAINING 6-1/2 OUNCES.

GENERAL REVIEW

PACK OF CLAMS AND CLAM PRODUCTS, 1961

(STANDARD CASES)

| SPECIES | WHOLE AND MINCED | | CHOWDER AND JUICE | | TOTAL | |
|---|------------------|-------------|-------------------|--------------|-----------|--------------|
| | CASES | VALUE | CASES | VALUE | CASES | VALUE |
| CLAMS: HARD, SOFT, AND SURF. | 438,517 | \$5,255,584 | 1,443,795 | \$10,097,365 | 1,882,312 | \$15,352,949 |
| RAZOR CLAMS (INCLUDES COCKLES IN ALASKA) | 21,975 | 471,435 | - | - | 21,975 | 471,435 |
| TOTAL | 460,492 | 5,727,019 | 1,443,795 | 10,097,365 | 1,904,287 | 15,824,384 |

NOTE:--CLAMS WERE CANNED IN 9 PLANTS IN WASHINGTON, 7 PLANTS IN NEW JERSEY, 6 PLANTS IN MAINE, 5 PLANTS IN ALASKA, 3 PLANTS EACH IN NEW YORK AND OREGON, 2 PLANTS EACH IN PENNSYLVANIA AND CALIFORNIA, AND 1 PLANT EACH IN MASSACHUSETTS, RHODE ISLAND, CONNECTICUT, AND DELAWARE. "STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF 48 NO. 1 PICNIC CANS, EACH CAN OF WHOLE OR MINCED CLAMS CONTAINING 5 OUNCES OF MEAT, DRAINED WEIGHT; AND EACH CAN OF CHOWDER, JUICE, BROTH, BOUILLON, OR NECTAR, 10 OUNCES NET CONTENT. THE PACK OF CLAMS CANNED IN THE SHELL IS NOT INCLUDED IN THIS TABLE.

CLAM PRODUCTION, BY TYPE OF PACK, 1961

| PRODUCT AND NUMBER OF PLANTS | STANDARD CASES | POUNDS | VALUE |
|---|----------------|------------|------------|
| CLAMS: WHOLE (11) | 14,553 | 218,295 | \$224,518 |
| MINCED (23) | 445,939 | 6,689,085 | 5,502,501 |
| CHOWDER (16) | 1,346,912 | 40,407,360 | 9,552,672 |
| JUICE (INCLUDES BOUILLON, BROTH, AND NECTAR (11)) | 96,883 | 2,906,490 | 544,693 |
| TOTAL 1/ (41) | 1,904,287 | 50,221,230 | 15,824,384 |

1/ EXCLUSIVE OF DUPLICATION.

THROUGH AN ERROR IN ASSEMBLY OF DATA ON THE PACK OF HARD, SOFT, AND SURF WHOLE OR MINCED CLAMS, DISCREPANCIES OCCURRED FOR 1951 AND FOR THE YEARS FROM 1954 TO 1960 INCLUSIVE. REVISED DATA ON THE PACK FOR THESE YEARS APPEAR IN THE FOLLOWING TABLE.

PACK OF WHOLE AND MINCED CLAMS, 1951, 1954-60 1/

| YEAR | CASES | POUNDS | YEAR | CASES | POUNDS |
|----------------|---------|-----------|----------------|---------|-----------|
| 1951 | 383,691 | 5,755,365 | 1957 | 382,628 | 5,739,420 |
| 1954 | 401,266 | 6,018,990 | 1958 | 325,036 | 4,875,540 |
| 1955 | 369,963 | 5,549,445 | 1959 | 416,756 | 6,251,340 |
| 1956 | 401,568 | 6,023,520 | 1960 | 384,630 | 5,769,450 |

1/ INCLUDES THE PACK OF HARD, SOFT, SURF, RAZOR, AND COCKLE CLAMS.

NOTE:--THE VALUE REMAINS AS PREVIOUSLY REPORTED.

PACK OF OYSTERS, 1961

| STATE AND NUMBER OF PLANTS | STANDARD CASES | VALUE | CAN CONTENTS AND CASE SIZE | ACTUAL CASES | VALUE |
|--|----------------|-----------|---|--------------|-------------|
| ATLANTIC AND GULF STATES: ALABAMA (1), AND SOUTH CAROLINA (2) | 54,470 | \$667,402 | ATLANTIC AND GULF STATES: 4-2/3 OUNCES (24 CANS) | 666,819 | \$4,185,103 |
| MISSISSIPPI (11) | 96,859 | 1,332,309 | 6-1/2 OUNCES (24 CANS) | 55,810 | 482,585 |
| LOUISIANA (12) | 227,741 | 2,767,596 | OTHER SIZES CONVERTED TO STANDARD CASES | 6,793 | 99,619 |
| TOTAL (26) | 379,070 | 4,767,307 | TOTAL | 729,422 | 4,767,307 |
| PACIFIC STATES: WASHINGTON (6), AND OREGON (1) | 66,615 | 1,009,057 | PACIFIC STATES: 4-2/3 OUNCES (48 CANS) | 27,436 | 454,927 |
| | | | 6-1/2 OUNCES (48 CANS) | 16,805 | 333,830 |
| | | | 9.9 OUNCES (24 CANS) | 3,072 | 42,718 |
| | | | OTHER SIZES CONVERTED TO STANDARD CASES | 12,514 | 177,582 |
| GRAND TOTAL (33) | 445,685 | 5,776,364 | TOTAL | 59,827 | 1,009,057 |
| | | | GRAND TOTAL | 789,249 | 5,776,364 |

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS TO THE CASE, EACH CAN CONTAINING 4-2/3 OUNCES DRAINED WEIGHT.

GENERAL REVIEW

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PACK OF SHRIMP, 1961

| STATE AND NUMBER OF PLANTS | STANDARD CASES | VALUE | CAN CONTENTS AND CASE SIZE | ACTUAL CASES | VALUE |
|--------------------------------------|----------------|-------------|--|--------------------------------|-------------------------------------|
| GULF STATES: | | | GULF STATES: 4-1/2 OUNCES (24 CANS) 5 OUNCES (24 CANS) OTHER SIZES CONVERTED TO STANDARD CASES | 1,091,560 235,267 11,083 | \$9,256,422 2,235,241 250,163 |
| MISSISSIPPI (11) | 83,454 | \$1,943,895 | | | |
| LOUISIANA (16) | 350,288 | 6,816,286 | | | |
| ALABAMA (1), TEXAS (3) | 46,415 | 974,996 | | | |
| TOTAL (33) | 480,157 | 9,735,177 | | | |
| PACIFIC STATES: | | | | | |
| WASHINGTON (2), OREGON (2) | 26,009 | 438,259 | | | |
| ALASKA (7) | 112,772 | 1,568,390 | | | |
| TOTAL (11) | 138,781 | 2,006,649 | | | |
| GRAND TOTAL (44) | 618,938 | 11,741,826 |  |  |  | TOTAL . . . . . | 1,335,950 | 11,741,826 |

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS TO THE CASE, EACH CONTAINING 5 OUNCES.

PACK OF MISCELLANEOUS FISHERY PRODUCTS, 1961

| PRODUCT | STANDARD CASES | VALUE | LOCATION AND NUMBER OF PLANTS | |
|--|----------------|------------|--|---|
| FISH: | | | | |
| ANCHOVY PASTE | 1,561 | \$109,970 | NEW YORK (2), MARYLAND (1), MICHIGAN (1) MAINE (1), MASSACHUSETTS (1), NEW JERSEY (1), VIRGINIA (1), WASHINGTON (1) NEW YORK (2), NEW JERSEY (3) ALASKA (8), WASHINGTON (7), OREGON (2), CALIFORNIA (1), WASHINGTON (5), OREGON (4) MAINE (1), WASHINGTON (1), OREGON (1), CALIFORNIA (3) | |
| CAKES (PRINCIPALLY GROUND FISH) | 86,426 | 1,204,619 | | |
| GEFILTE FISH | 276,524 | 4,981,500 | | |
| SALMON AND STEELHEAD TROUT, SMOKED | 774 | 73,731 | | |
| STURGEON, SMOKED | 477 | 28,640 | | |
| TUNA SPECIALTIES (WITH NOODLES, CREAMED, SMOKED, AND WITH SHERRY) | 59,692 | 693,189 | | |
| OTHER SPECIALTIES (SALTED COD, CREAMED HADDOCK, SMOKED HALIBUT, PACIFIC HERRING, KING MACKEREL PASTE, SALTED SALMON LIVERS, SALMON SPREAD, SARDINE COCKTAILS, SARDINE SPREAD, SMOKED SHAD, WAHOO, WHITEFISH, UNCLASSIFIED FISH IN APPETIZERS, CHOWDER, FLAKES, AND SPREAD) | 72,362 | 1,077,814 | | |
| TOTAL FISH | 499,816 | 8,169,463 | | |
| SHELLFISH: | | | | |
| CRAB SPECIALTIES (DEVILED, DIP, SMOKED, SPREAD, SOFT SHELL, AND SOUPS AND STEWS) | 8,226 | 160,013 | | MAINE (1), PENNSYLVANIA (1), NEW JERSEY (1), MARYLAND (2), SOUTH CAROLINA (1), LOUISIANA (2), WASHINGTON (2), OREGON (1) MAINE (1), CONNECTICUT (1), NEW JERSEY (3), PENNSYLVANIA (1), MARYLAND (1) MAINE (1), NEW JERSEY (2), PENNSYLVANIA (1), MARYLAND (2), LOUISIANA (3) MAINE (2), MASSACHUSETTS (1), CONNECTICUT (1), NEW YORK (1), NEW JERSEY (2), DELAWARE (1), PENNSYLVANIA (1), MARYLAND (2), WASHINGTON (2) NEW YORK (1), NEW JERSEY (1), DELAWARE (1) WASHINGTON (5), OREGON (1) NEW JERSEY (1), PENNSYLVANIA (1), SOUTH CAROLINA (1), WASHINGTON (4), OREGON (1) NEW JERSEY (1), MARYLAND (1), LOUISIANA (3), WASHINGTON (1) NEW YORK (1), NEW JERSEY (1), CALIFORNIA (8) NEW JERSEY (2), PENNSYLVANIA (3), WEST COAST OF FLORIDA (1), OHIO (1), LOUISIANA (3) MAINE (3), NEW YORK (1), NEW JERSEY (1), WEST COAST OF FLORIDA (1), LOUISIANA (3) |
| LOBSTER SPECIALTIES (MEAT, KNUCKLES, THERMIDOR, SPREAD, AND SOUPS AND STEWS) | 7,881 | 221,639 | | |
| SHRIMP SPECIALTIES (DIP, SOUPS AND STEWS) | 6,014 | 120,049 | | |
| CLAM SPECIALTIES (DIP, CAKES, SPREAD, SAUCE, IN THE SHELL, AND SOUPS AND STEWS) | 49,162 | 695,994 | | |
| CONCH MEAT | 5,675 | 142,140 | | |
| OYSTER SPECIALTIES: | | | | |
| SMOKED | 926 | 98,834 | | |
| STEW | 138,875 | 1,955,141 | | |
| BISSQUE AND SOUP | 1,573 | 22,748 | | |
| SQUID SPECIALTIES (MEAT CHOWDER, SOUP AND STEW) | 114,800 | 567,114 | | |
| OTHER SPECIALTIES (CONCH CHOWDER, CRAWFISH BISQUE, MUSSELS, SCALLOPS IN SAUCE, AND UNCLASSIFIED SHELLFISH IN SOUPS AND STEWS) | 3,288 | 69,516 | | |
| TOTAL SHELLFISH | 363,348 | 4,443,917 | | |
| GRAND TOTAL | 863,164 | 12,613,380 | | |

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS, EACH CONTAINING 16 OUNCES NET WEIGHT.

GENERAL REVIEW

INDUSTRIAL FISHERY PRODUCTS

The production of industrial fishery products by 170 plants in the United States, American Samoa, and Puerto Rico in 1961 was valued at \$74.6 million. Compared with 1960, this was an increase of \$8 million.

Marine animal scrap and meal:--Production increased from 290,000 tons in 1960 to 311,000 tons in 1961 establishing a new record. Menhaden meal accounted for 80 percent of the total.

In the spring of 1961, concern was expressed over the decline in the price of fish meal. An international meeting was held in Rome to assess the world demand for fish meal and to explore possibilities of insuring stable international markets for this product. By the end of 1961, (although United States production and imports were the largest in history) meal was in short supply. Prices had shown a marked recovery, and dealers were actively seeking new sources of supply.

Marine animal oil:--Over 34 million gallons were produced in 1961. Compared with 1960, this was an increase of 6.5 million gallons. The 1961 production was the largest since 1939 when the California sardine fishery was at its peak. Menhaden oil (31.4 million gallons) accounted for 91 percent of the total 1961 production.

Solubles and homogenized condensed fish:--Although production increased from 99,000 tons in 1960 to 112,000 tons in 1961, it was well below the 165,000 tons manufactured in 1959. Some firms added solubles to their meal. This caused production to be reported as meal rather than solubles.

Other industrial products:--Products from oyster shells and buttons from fresh-water and marine mollusk shells were valued at \$9.4 million in 1961. Compared with the previous year, this was a decrease of nearly \$1 million.

Other industrial products manufactured in 1961 included agar-agar, fish feed pellets and animal feeds, Irish moss extract, kelp products, liquid fertilizer, mollusk shell lime, pearl essence, and crab shells valued at \$13.4 million. In the previous year, other industrial products were valued at \$13.8 million.



SUMMARY OF PRODUCTION, BY COMMODITIES, 1961

| PRODUCTS | NUMBER OF PLANTS | UNIT | QUANTITY | VALUE |
|--|------------------|---------|------------|--------------|
| MARINE ANIMAL SCRAP AND MEAL | 107 | TONS | 311,265 | \$31,939,836 |
| MARINE ANIMAL OILS: | | | | |
| BODY OIL | 73 | GALLONS | 34,408,608 | 14,318,340 |
| LIVER OIL | 3 | DO | 6,680 | 54,546 |
| MARINE PEARL SHELL BUTTONS | 14 | GROSS | 1,250,400 | 2,317,503 |
| MUSSELL SHELL BUTTONS | 7 | DO | 591,767 | 702,296 |
| OYSTER SHELL GRIT AND LIME | 17 | TONS | 442,835 | 6,341,864 |
| FISH SOLUBLES AND HOMOGENIZED CONDENSED FISH | 36 | DO | 112,254 | 5,468,643 |
| MISCELLANEOUS INDUSTRIAL PRODUCTS | 20 | - | - | 13,425,946 |
| TOTAL INDUSTRIAL PRODUCTS 1/ | 170 | - | - | 74,568,974 |

1/ EXCLUSIVE OF DUPLICATION.

NOTE:--LISTS OF MANUFACTURERS OF FISHERY INDUSTRIAL PRODUCTS BY INDIVIDUAL COMMODITIES MAY BE OBTAINED FROM THE OFFICE OF INFORMATION, U.S. FISH AND WILDLIFE SERVICE, WASHINGTON 25, D.C.

GENERAL REVIEW

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SUMMARY OF PRODUCTION, BY STATES, 1961

| STATE | VALUE |
|--|-------------|
| MAINE | \$4,458,975 |
| MASSACHUSETTS, RHODE ISLAND, AND CONNECTICUT | 3,467,646 |
| NEW YORK | 1,859,055 |
| NEW JERSEY | 7,111,972 |
| PENNSYLVANIA AND DELAWARE | 5,725,271 |
| MARYLAND, AMERICAN SAMOA, AND PUERTO RICO | 1,920,063 |
| VIRGINIA | 4,921,408 |
| NORTH CAROLINA | 4,319,237 |
| GEORGIA, FLORIDA, AND ALABAMA | 3,617,488 |
| MISSISSIPPI | 5,704,045 |
| LOUISIANA | 11,261,531 |
| TEXAS | 4,012,108 |
| ILLINOIS AND IOWA | 764,576 |
| ALASKA | 663,189 |
| WASHINGTON | 173,775 |
| OREGON | 473,557 |
| CALIFORNIA | 13,915,078 |
| TOTAL | 74,568,974 |



PLANTS PRODUCING INDUSTRIAL FISHERY PRODUCTS, 1961

| AREA AND STATE | NUMBER | AREA AND STATE | NUMBER |
|-------------------------|--------|--------------------------|--------|
| NEW ENGLAND: | | SOUTH ATLANTIC AND GULF: | |
| MAINE | 12 | NORTH CAROLINA | 17 |
| MASSACHUSETTS | 5 | GEORGIA | 1 |
| RHODE ISLAND | 1 | FLORIDA | 6 |
| CONNECTICUT | 1 | ALABAMA | 1 |
| TOTAL | 19 | MISSISSIPPI | 5 |
| MIDDLE ATLANTIC: | | LOUISIANA | 8 |
| NEW YORK | 4 | TEXAS | 6 |
| NEW JERSEY | 13 | TOTAL | 44 |
| PENNSYLVANIA | 2 | MISSISSIPPI RIVER: | |
| DELAWARE | 3 | ILLINOIS | 1 |
| TOTAL | 22 | IOWA | 7 |
| CHESAPEAKE BAY: | | TOTAL | 8 |
| MARYLAND | 9 | PACIFIC COAST: | |
| VIRGINIA | 16 | ALASKA | 4 |
| TOTAL | 25 | WASHINGTON | 11 |
| | | OREGON | 3 |
| | | CALIFORNIA | 31 |
| | | TOTAL | 49 |
| | | AMERICAN SAMOA | 1 |
| | | PUERTO RICO | 2 |
| | | GRAND TOTAL | 170 |

GENERAL REVIEW

NUMBER OF PLANTS PRODUCING INDUSTRIAL FISHERY PRODUCTS, 1961

| PRODUCTS | ATLANTIC AND GULF COASTS ^{1/} | PACIFIC COAST ^{2/} | TOTAL |
|---|--|-----------------------------------|--------|
| | NUMBER | NUMBER | NUMBER |
| SCRAP AND MEAL, DRIED: | | | |
| ALEWIFE | 3 | - | 3 |
| ANCHOVY | - | 2 | 2 |
| CRAB: | | | |
| BLUE | 16 | - | 16 |
| DUNGENESS | - | - | 1 |
| FUR SEAL | - | 1 | 1 |
| GROUND FISH (INCLUDES OCEAN PERCH) | 1 | - | 1 |
| HERRING: | | | |
| SEA | 2 | 4 | 6 |
| THREAD | 2 | - | 2 |
| HORSESHOE CRAB | 1 | - | 1 |
| MENHADEN | 34 | - | 34 |
| SALMON | - | 1 | 1 |
| SARDINE, PACIFIC | - | 10 | 10 |
| SHRIMP | 3 | 1 | 4 |
| TUNA AND MACKEREL | - | 20 | 20 |
| WHALE | - | 3 | 3 |
| UNCLASSIFIED | 20 | 8 | 28 |
| OIL: | | | |
| BODY: | | | |
| ALEWIFE | 4 | - | 4 |
| ANCHOVY | - | 2 | 2 |
| FUR SEAL | - | 1 | 1 |
| OCEAN PERCH | 1 | - | 1 |
| HALIBUT | - | 1 | 1 |
| HERRING: | | | |
| SEA | 1 | 4 | 5 |
| THREAD | 2 | - | 2 |
| MENHADEN | 34 | - | 34 |
| SALMON: | | | |
| EDIBLE | - | 2 | 2 |
| INDUSTRIAL | - | 2 | 2 |
| SARDINE, PACIFIC | - | 10 | 10 |
| TUNA AND MACKEREL | - | 18 | 18 |
| WHALE: | | | |
| SPERM | - | 3 | 3 |
| OTHER | - | 3 | 3 |
| UNCLASSIFIED | 8 | 6 | 14 |
| LIVER: | | | |
| SHARK | - | 1 | 1 |
| UNCLASSIFIED | 1 | 1 | 2 |
| MUSSEL SHELL PRODUCTS (FRESH- WATER): | | | |
| BUTTONS | 7 | - | 7 |
| LIME AND CHIPS | 2 | - | 2 |
| OYSTER SHELL PRODUCTS: | | | |
| CRUSHED SHELL FOR POULTRY FEED | 9 | - | 9 |
| SHELL LIME: | | | |
| BURNED | 2 | - | 2 |
| UNBURNED | 6 | 4 | 10 |
| MARINE PEARL SHELL BUTTONS | 14 | - | 14 |
| AGAR-AGAR | - | 1 | 1 |
| FISH SOLUBLES AND HOMOGENIZED CONDENSED FISH | 27 | 9 | 36 |
| GLUE | 1 | - | 1 |
| IRISH MOSS EXTRACTS | 3 | - | 3 |
| KELP PRODUCTS | 1 | 2 | 3 |
| LIQUID FERTILIZER | - | 2 | 2 |
| PEARL ESSENCE | 6 | - | 6 |
| CRAB SHELLS (FOR DEVILED CRAB MEAT) | 2 | - | 2 |
| ANIMAL FEEDS | - | 1 | 1 |
| FISH FOOD PELLETS | - | 2 | 2 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 118 | 52 | 170 |

1/ INCLUDES FIRMS IN THE MISSISSIPPI RIVER AREA.

2/ INCLUDES AMERICAN SAMOA AND PUERTO RICO.

GENERAL REVIEW

PRODUCTION OF MARINE ANIMAL SCRAP AND MEAL, 1961

| PRODUCT | ATLANTIC AND GULF COASTS | | PACIFIC COAST AND TERRITORIES | | TOTAL | |
|-----------------------------|--------------------------|---------------|-------------------------------|-------------|----------|--------------|
| | TONS | VALUE | TONS | VALUE | TONS | VALUE |
| DRIED SCRAP AND MEAL: | | | | | | |
| CRAB | 1/10, 502 | 1/\$425, 797 | (1) | (1) | 10, 502 | \$425, 797 |
| FUR SEAL | - | - | 312 | \$24, 130 | 312 | 24, 130 |
| HERRING | (2) | (2) | 2/5, 268 | 2/619, 934 | 5, 268 | 619, 934 |
| MENHADEN | 247, 551 | 25, 852, 498 | - | - | 247, 551 | 25, 852, 498 |
| SARDINE, PACIFIC | - | - | 2, 518 | 257, 171 | 2, 518 | 257, 171 |
| SHRIMP | 1/296 | 1/11, 425 | (1) | (1) | 296 | 11, 425 |
| TUNA AND MACKEREL | - | - | 21, 243 | 2, 056, 426 | 21, 243 | 2, 056, 426 |
| WHALE | - | - | 1, 658 | 203, 096 | 1, 658 | 203, 096 |
| UNCLASSIFIED | 3/18, 894 | 3/2, 201, 418 | 4/3, 023 | 4/287, 941 | 21, 917 | 2, 489, 359 |
| TOTAL | 277, 243 | 28, 491, 138 | 34, 022 | 3, 448, 698 | 311, 265 | 31, 939, 836 |

1/ A SMALL WEST COAST PRODUCTION IS INCLUDED WITH THE EAST COAST PRODUCTION.

2/ A SMALL EAST COAST PRODUCTION IS INCLUDED WITH THE WEST COAST PRODUCTION.

3/ INCLUDES THE PRODUCTION OF MEAL AND SCRAP FROM ALEWIVES, GROUND FISH, OCEAN PERCH, THREAD HERRING, AND HORSE-SHOE CRAB.

4/ INCLUDES THE PRODUCTION OF MEAL AND SCRAP FROM ANCHOVIES AND SALMON.

PRODUCTION OF MARINE ANIMAL OIL, 1961

| PRODUCT | ATLANTIC AND GULF COASTS | | PACIFIC COAST AND TERRITORIES | | TOTAL | |
|-----------------------------------|--------------------------|--------------|-------------------------------|-------------|--------------|--------------|
| | GALLONS | VALUE | GALLONS | VALUE | GALLONS | VALUE |
| BODY OIL: | | | | | | |
| ALEWIFE | 12, 053 | \$4, 433 | - | - | 12, 053 | \$4, 433 |
| FUR SEAL | - | - | 52, 458 | \$14, 819 | 52, 458 | 14, 819 |
| HERRING | (1) | (1) | 1/818, 020 | 1/416, 710 | 818, 020 | 416, 710 |
| MENHADEN | 31, 355, 570 | 12, 913, 447 | - | - | 31, 355, 570 | 12, 913, 447 |
| SARDINE, PACIFIC | - | - | 86, 167 | 36, 221 | 86, 167 | 36, 221 |
| SALMON | - | - | 19, 570 | 24, 493 | 19, 570 | 24, 493 |
| TUNA AND MACKEREL | - | - | 762, 509 | 278, 160 | 762, 509 | 278, 160 |
| WHALE: | | | | | | |
| SPERM | - | - | 92, 818 | 63, 116 | 92, 818 | 63, 116 |
| OTHER | - | - | 369, 896 | 179, 223 | 369, 896 | 179, 223 |
| UNCLASSIFIED | 2/730, 011 | 2/345, 382 | 3/109, 736 | 3/42, 336 | 639, 747 | 387, 718 |
| TOTAL | 32, 097, 634 | 13, 263, 262 | 2, 311, 174 | 1, 055, 078 | 34, 408, 808 | 14, 318, 340 |
| LIVER OIL, UNCLASSIFIED | (1) | (1) | 1/6, 880 | 1/54, 546 | 6, 880 | 54, 546 |
| GRAND TOTAL | 32, 097, 634 | 13, 263, 262 | 2, 318, 054 | 1, 109, 624 | 34, 415, 688 | 14, 372, 886 |

1/ EAST COAST PRODUCTION INCLUDED WITH WEST COAST PRODUCTION.

2/ INCLUDES OCEAN PERCH AND THREAD HERRING OILS.

3/ INCLUDES ANCHOVY AND HALIBUT OILS.

PRODUCTION OF FISH SOLUBLES AND HOMOGENIZED CONDENSED FISH, 1961

| PRODUCT, STATE, AND NUMBER OF PLANTS | TONS | VALUE |
|---|----------|-------------|
| FISH SOLUBLES: | | |
| MAINE (1), MASSACHUSETTS (2), AND TEXAS (1) | 6, 492 | \$273, 570 |
| NEW YORK (1), NEW JERSEY (2), AND DELAWARE (1) | 19, 568 | 790, 820 |
| VIRGINIA (4) | 13, 220 | 641, 300 |
| NORTH CAROLINA (4), AND EAST COAST OF FLORIDA (1) | 7, 842 | 391, 103 |
| MISSISSIPPI (3) | 11, 392 | 455, 672 |
| LOUISIANA (5) | 18, 039 | 734, 102 |
| OREGON (1), AND CALIFORNIA (6) | 24, 011 | 1, 480, 676 |
| TOTAL (34) | 100, 564 | 4, 767, 243 |
| HOMOGENIZED CONDENSED FISH, MASSACHUSETTS (1), AND RHODE ISLAND (1) | 11, 690 | 701, 400 |
| GRAND TOTAL (36) | 112, 254 | 5, 468, 643 |

NOTE:—INCLUDES MENHADEN SOLUBLES.

GENERAL REVIEW

MENHADEN USED FOR REDUCTION, BY STATES, 1961

| STATE | MENHADEN UTILIZED | |
|--|-------------------|----------------|
| | POUNDS | NUMBER OF FISH |
| MASSACHUSETTS, RHODE ISLAND, NEW YORK, NEW JERSEY, AND DELAWARE | 737,813,023 | 1,101,213,467 |
| VIRGINIA | 276,640,940 | 415,882,000 |
| NORTH CAROLINA | 221,524,780 | 330,634,000 |
| FLORIDA AND TEXAS | 170,003,790 | 253,737,000 |
| MISSISSIPPI | 301,270,850 | 449,636,000 |
| LOUISIANA | 581,662,610 | 868,183,000 |
| TOTAL | 2,290,936,003 | 3,419,307,467 |

NOTE:--INCLUDES SMALL QUANTITIES OF OTHER SPECIES.

PRODUCTION OF MENHADEN PRODUCTS, 1961

| STATE AND NUMBER OF PLANTS | DRY SCRAP AND MEAL | | OIL | | SOLUBLES | | TOTAL |
|--|--------------------|-------------|------------|-------------|----------|-----------|--------------|
| | TONS | VALUE | GALLONS | VALUE | TONS | VALUE | VALUE |
| MASSACHUSETTS (1), RHODE ISLAND (1), NEW YORK (1), NEW JERSEY (3), AND DELAWARE (2) | 86,304 | \$8,618,698 | 11,013,801 | \$4,162,583 | 19,569 | \$790,820 | \$13,572,101 |
| VIRGINIA (4) | 29,773 | 3,191,354 | 1,865,600 | 702,600 | 13,164 | 636,700 | 4,532,654 |
| NORTH CAROLINA (10) | 23,379 | 2,688,385 | 2,705,640 | 968,611 | 7,544 | 374,713 | 4,032,109 |
| FLORIDA (2) AND TEXAS (3) | 18,002 | 1,971,711 | 1,544,167 | 714,476 | 3,597 | 148,390 | 2,834,577 |
| MISSISSIPPI (3) | 20,550 | 3,062,224 | 4,805,886 | 2,162,649 | 11,392 | 455,672 | 5,680,545 |
| LOUISIANA (6) | 60,543 | 6,319,926 | 9,340,476 | 4,202,328 | 18,039 | 734,102 | 11,256,356 |
| TOTAL (35) 1/ | 247,551 | 25,852,498 | 31,355,570 | 12,913,447 | 73,305 | 3,142,397 | 41,908,342 |

1/ EXCLUSIVE OF DUPLICATION. NOTE:--INCLUDES SMALL QUANTITIES OF OTHER SPECIES.

PRODUCTION OF OYSTER SHELL PRODUCTS, 1961

("LIVE AND REEF SHELLS")

| STATE AND NUMBER OF PLANTS | POULTRY GRIIT | | LIME, BURNED AND UNBURNED | | TOTAL | |
|--|---------------|-------------|------------------------------|-----------|---------|-------------|
| | TONS | VALUE | TONS | VALUE | TONS | VALUE |
| NEW JERSEY (1), PENNSYLVANIA (1), MARYLAND (2), AND VIRGINIA (3) | 61,828 | \$1,152,643 | 20,390 | \$155,353 | 82,218 | \$1,307,996 |
| FLORIDA (1), ALABAMA (1), AND TEXAS (2) | 301,657 | 4,301,810 | 34,597 | 446,925 | 336,254 | 4,748,735 |
| WASHINGTON (3), OREGON (1), AND CALIFORNIA (2) | 22,678 | 270,639 | 1,685 | 14,494 | 24,363 | 285,133 |
| TOTAL (17) | 386,163 | 5,725,092 | 56,672 | 616,772 | 442,835 | 6,341,864 |

NOTE:--A QUANTITY OF BURNED LIME WAS PRODUCED IN VIRGINIA.

PRODUCTION OF FRESH-WATER MUSSEL SHELL BUTTONS, 1961

| STATE AND NUMBER OF PLANTS | BUTTONS | |
|---------------------------------------|---------|-----------|
| | GROSS | VALUE |
| IOWA (6) AND NEW JERSEY (1) | 591,767 | \$702,296 |

NOTE:--VALUE OF THE PRODUCTION OF MUSSEL SHELL LIME, DUST AND COLORED CHIPS IS INCLUDED WITH MISCELLANEOUS FISHERY INDUSTRIAL PRODUCTS.

PRODUCTION OF MARINE PEARL SHELL BUTTONS, 1961

| STATE AND NUMBER OF PLANTS | GROSS | VALUE |
|--|-----------|-----------|
| CONNECTICUT (1), NEW YORK (2) | 591,313 | \$958,268 |
| NEW JERSEY (7) | 429,084 | 1,069,407 |
| PENNSYLVANIA (1), DELAWARE (1), AND MARYLAND (2) | 230,003 | 269,828 |
| TOTAL (14) | 1,250,400 | 2,317,503 |

PRODUCTION OF MISCELLANEOUS
INDUSTRIAL FISHERY PRODUCTS, 1961

| PRODUCTS | STATE AND NUMBER OF PLANTS | VALUE |
|---|---|--------------|
| AGAR-AGAR | CALIFORNIA (1) | |
| FISH FEED PELLETS AND ANIMAL FEEDS | WASHINGTON (1), OREGON (1) | |
| GLUE | MASSACHUSETTS (1) | |
| IRISH MOSS EXTRACT | MAINE (2), NEW JERSEY (1) | |
| KELP PRODUCTS | MAINE (1), CALIFORNIA (2) | \$13,425,946 |
| LIQUID FERTILIZER | OREGON (1), WASHINGTON (1) | |
| FRESH-WATER MUSSEL SHELL LIME, DUST, AND CHIPS | ILLINOIS (1), IOWA (1) | |
| PEARL ESSENCE | MAINE (5), VIRGINIA (1) | |
| CRAB SHELLS (FOR DEVILLED CRAB MEAT) | WEST COAST FLORIDA (1), TEXAS (1) | |

PACKAGED FISH

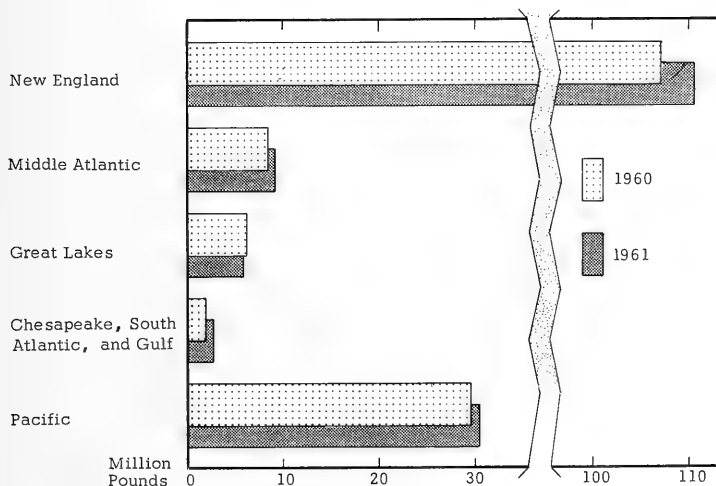
The production of fresh and frozen packaged fish fillets and steaks in the United States during 1961 totaled 158.1 million pounds valued at \$51.8 million to the processors. This was an increase of 4.9 million pounds or 3 percent in volume and \$3.3 million or 7 percent in value compared with 1960. It was estimated that round fish weighing 448.6 million pounds were required for the 1961 production of packaged fillets and steaks.

Haddock fillets (38.2 million pounds) and Atlantic ocean perch fillets (37.5 million pounds) were the leading items and accounted for 48 percent of the total volume and 41.5 percent of the total value. Other leading items filleted and steaked were flounders, cod, halibut, and pollock which made up 37 percent of the total quantity and 42 percent of the total value. The greatest production of packaged fish occurred in the New England area which accounted for 70 percent of the volume and 61 percent of the total value.

Preliminary data on the production of packaged fish during 1961 have been previously published in Current Fishery Statistics No. 2861.



PRODUCTION OF PACKAGED FISH, BY SECTIONS, 1960-61



GENERAL REVIEW

SUMMARY OF PRODUCTION OF PACKAGED FISH, 1961

| ITEM | FILLETS | | STEAKS | | TOTAL | |
|------------------|-------------|--------------|------------|-----------|-------------|--------------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| FRESH | 62,449,624 | \$22,846,863 | 456,413 | \$119,793 | 62,906,037 | \$22,966,656 |
| FROZEN | 63,842,129 | 22,947,959 | 11,363,420 | 5,849,518 | 95,205,549 | 28,797,477 |
| TOTAL | 146,291,753 | 45,794,822 | 11,819,833 | 5,969,311 | 158,111,586 | 51,764,133 |

PRODUCTION OF FRESH AND FROZEN PACKAGED FISH,
BY SECTIONS, 1961

| SPECIES | NEW ENGLAND | | MIDDLE ATLANTIC | | CHESAPEAKE, SOUTH ATLANTIC, AND GULF | |
|---------------------------------|-------------|-------------|-----------------|-------------|--|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| COD | 6,136,630 | \$1,703,040 | 3,105,208 | \$1,306,208 | - | - |
| CUSK | 340,249 | 97,547 | - | - | - | - |
| FLOUNDERS | 18,216,935 | 6,400,313 | 4,346,452 | 2,685,322 | 308,000 | \$152,250 |
| GROUPERS | - | - | - | - | 333,803 | 145,005 |
| HADDOCK | 36,702,013 | 11,364,375 | 1,458,240 | 644,841 | - | - |
| HAKE | 296,222 | 83,170 | 42,000 | 12,600 | - | - |
| HALIBUT | 881,640 | 381,995 | - | - | - | - |
| MACKEREL | 32,000 | 8,700 | - | - | - | - |
| OCEAN PERCH, ATLANTIC | 37,493,743 | 9,475,150 | - | - | - | - |
| POLLOCK | 6,560,941 | 1,181,297 | 15,650 | 4,253 | - | - |
| SALMON | 46,010 | 35,468 | - | - | - | - |
| SNAPPER, RED | - | - | - | - | 348,735 | 263,082 |
| SPANISH MACKEREL | - | - | - | - | 1,132,290 | 350,148 |
| SWORDFISH | 72,385 | 41,037 | - | - | - | - |
| WHITING | 3,297,405 | 630,153 | - | - | - | - |
| WOLFFISH | 227,025 | 73,962 | - | - | - | - |
| MISCELLANEOUS 1/ | - | - | 40,250 | 18,799 | 651,600 | 278,697 |
| TOTAL | 110,305,196 | 31,476,207 | 9,008,000 | 4,674,023 | 2,774,428 | 1,189,182 |

| SPECIES | GREAT LAKES | | PACIFIC COAST | |
|--------------------------------|-------------|-----------|---------------|------------|
| | POUNDS | VALUE | POUNDS | VALUE |
| COD | - | - | 885,815 | \$193,113 |
| FLOUNDERS | - | - | 8,645,785 | 2,969,075 |
| HALIBUT | - | - | 8,972,027 | 4,555,268 |
| HERRING, LAKE | 75,504 | \$21,501 | - | - |
| LAKE TROUT | 119,445 | 102,078 | - | - |
| LINGCOD | - | - | 1,943,670 | 429,111 |
| OCEAN PERCH, PACIFIC | - | - | 3,743,982 | 855,387 |
| ROCKFISHES | - | - | 4,061,649 | 859,277 |
| SALMON | - | - | 1,107,257 | 784,770 |
| SAUGER | 525,000 | 406,815 | - | - |
| SWORDFISH | - | - | 675,794 | 478,286 |
| WHITE BASS | 48,042 | 20,884 | - | - |
| WHITEFISH | 537,211 | 406,803 | - | - |
| YELLOW PERCH | 3,334,342 | 1,502,040 | - | - |
| YELLOW PIKE | 962,581 | 741,581 | - | - |
| MISCELLANEOUS 1/ | 119,500 | 61,280 | 66,156 | 37,432 |
| TOTAL | 5,721,625 | 3,262,982 | 30,302,335 | 11,161,739 |

1/ INCLUDES BLUEFISH, BLACK AND RED DRUM, KING WHITING, MULLET, PIKE OR PICKEREL, POMPANO, SABLEFISH, SCUP, SEA BASS, GRAY AND SPOTTED SEA TROUT, SHAD, STRIPED BASS, WARSAW, WHITE PERCH, AND UNCLASSIFIED SPECIES.



GENERAL REVIEW

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PRODUCTION OF PACKAGED FISH, BY METHOD OF PREPARATION, 1961

| SPECIES | FILLETS | | | |
|----------------------------|-------------------|-------------------|-------------------|-------------------|
| | FRESH | | FROZEN | |
| | POUNDS | VALUE | POUNDS | VALUE |
| COD | 6,568,123 | \$2,311,704 | 3,143,906 | \$607,980 |
| CUSK | 308,872 | 88,136 | 31,377 | 9,411 |
| FLOUNDERS | 21,344,867 | 8,947,150 | 10,172,305 | 3,259,810 |
| GROUPERS | 172,980 | 77,528 | 107,870 | 46,858 |
| HADDOCK | 21,248,830 | 7,138,982 | 16,911,423 | 4,870,234 |
| HAKE | 327,055 | 93,587 | 13,167 | 2,183 |
| HALIBUT | - | - | 1,125,330 | 644,589 |
| HERRING, LAKE | 38,504 | 11,901 | 57,000 | 9,600 |
| LAKE TROUT | 74,490 | 63,947 | 44,955 | 38,131 |
| LINGCOD | 1,200,846 | 253,825 | 743,024 | 175,286 |
| MACKEREL | 10,000 | 2,600 | 22,000 | 6,100 |
| OCEAN PERCH: | | | | |
| ATLANTIC | 432,635 | 111,090 | 37,061,108 | 9,364,060 |
| PACIFIC | 1,879,824 | 404,047 | 1,864,138 | 451,340 |
| POLLOCK | 1,671,014 | 349,804 | 4,905,777 | 835,746 |
| ROCKFISHES | 3,143,841 | 652,789 | 917,808 | 205,518 |
| SALMON | - | - | 14,393 | 11,514 |
| SAUGER | 390,000 | 304,775 | 135,000 | 102,040 |
| SNAPPER, RED | 53,329 | 40,797 | 271,176 | 204,573 |
| SPANISH MACKEREL | 36,800 | 13,396 | 1,095,490 | 336,752 |
| WHITE BASS | 42,528 | 18,251 | 5,514 | 2,633 |
| WHITFISH | 373,799 | 301,775 | 163,412 | 105,020 |
| WHITING | 11,545 | 2,662 | 3,285,860 | 627,491 |
| WOLFFISH | 33,510 | 10,870 | 193,515 | 63,092 |
| YELLOW PERCH | 2,314,182 | 1,070,379 | 1,020,160 | 431,661 |
| YELLOW PIKE | 645,950 | 499,568 | 316,631 | 242,013 |
| MISCELLANEOUS 1/ | 106,100 | 77,330 | 239,750 | 93,316 |
| TOTAL | 62,449,624 | 22,846,863 | 83,842,129 | 22,947,959 |

| SPECIES | STEAKS, FRESH AND FROZEN | | TOTAL | |
|----------------------------|-----------------------------|------------------|--------------------|-------------------|
| | POUNDS | VALUE | POUNDS | VALUE |
| | COD | 395,624 | \$84,677 | 10,127,653 | $3,204,361 |
| CUSK | - | - | 340,249 | 97,547 |
| FLOUNDERS | - | - | 31,517,172 | 12,206,960 |
| GROUPERS | 52,953 | 20,619 | 333,803 | 145,005 |
| HADDOCK | - | - | 38,160,253 | 12,009,216 |
| HAKE | - | - | 340,222 | 95,770 |
| HALIBUT | 8,728,317 | 4,292,694 | 9,853,657 | 4,937,283 |
| HERRING, LAKE | - | - | 75,504 | 21,501 |
| LAKE TROUT | - | - | 119,445 | 102,078 |
| LINGCOD | - | - | 1,943,870 | 429,111 |
| MACKEREL | - | - | 32,000 | 8,700 |
| OCEAN PERCH: | | | | |
| ATLANTIC | - | - | 37,493,743 | 9,475,150 |
| PACIFIC | - | - | 3,743,982 | 855,387 |
| POLLOCK | - | - | 6,576,791 | 1,185,550 |
| ROCKFISHES | - | - | 4,061,649 | 859,277 |
| SALMON | 1,138,874 | 808,724 | 1,153,267 | 820,238 |
| SAUGER | - | - | 525,000 | 406,815 |
| SNAPPER, RED | 24,230 | 17,712 | 348,735 | 263,082 |
| SPANISH MACKEREL | - | - | 1,132,290 | 350,145 |
| SWORDFISH | 948,179 | 519,323 | 948,179 | 519,323 |
| WHITE BASS | - | - | 46,042 | 20,884 |
| WHITFISH | - | - | 537,211 | 406,803 |
| WHITING | - | - | 3,297,405 | 630,153 |
| WOLFFISH | - | - | 227,025 | 73,962 |
| YELLOW PERCH | - | - | 3,334,342 | 1,502,040 |
| YELLOW PIKE | - | - | 962,581 | 741,581 |
| MISCELLANEOUS 1/ | - | - | 877,506 | 396,208 |
| TOTAL | 11,819,833 | 5,969,311 | 158,111,586 | 51,764,133 |

1/ INCLUDES BLUEFISH, BLACK AND RED DRUM, KING WHITING, MULLET, PIKE OR PICKEREL, POMPANO, SABLEFISH, SCUP, SEA BASS, GRAY AND SPOTTED SEA TROUT, SHAD, STRIPED BASS, WARSAW, WHITE PERCH, AND UNCLASSIFIED SPECIES.

GENERAL REVIEW

PRODUCTION OF FISH STICKS, 1961

| MONTH | COOKED | RAW | TOTAL |
|--|-----------------|-----------------|-----------------|
| | THOUSAND POUNDS | THOUSAND POUNDS | THOUSAND POUNDS |
| JANUARY | 5,734 | 357 | 6,091 |
| FEBRUARY | 6,721 | 376 | 7,097 |
| MARCH | 6,678 | 555 | 7,233 |
| APRIL | 5,222 | 377 | 5,599 |
| MAY | 4,764 | 365 | 5,129 |
| JUNE | 4,603 | 325 | 4,928 |
| JULY | 3,262 | 313 | 3,575 |
| AUGUST | 6,335 | 592 | 6,927 |
| SEPTEMBER | 4,853 | 353 | 5,206 |
| OCTOBER | 5,743 | 390 | 6,133 |
| NOVEMBER | 5,839 | 449 | 6,288 |
| DECEMBER | 5,252 | 366 | 5,618 |
| TOTAL | 65,006 | 4,818 | 69,824 |
| TOTAL VALUE-YEAR (THOUSANDS OF DOLLARS) . . . | 28,321 | 1,779 | 30,100 |



PRODUCTION OF FISH PORTIONS, 1961

| MONTH | BREADED | | | UNBREADED | TOTAL |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|
| | COOKED | RAW | TOTAL | | |
| | THOUSAND POUNDS | THOUSAND POUNDS | THOUSAND POUNDS | THOUSAND POUNDS | THOUSAND POUNDS |
| JANUARY | 694 | 3,472 | 4,166 | 137 | 4,303 |
| FEBRUARY | 756 | 3,940 | 4,696 | 206 | 4,902 |
| MARCH | 1,322 | 4,339 | 5,661 | 170 | 5,831 |
| APRIL | 771 | 3,537 | 4,328 | 156 | 4,484 |
| MAY | 621 | 2,935 | 3,756 | 123 | 3,879 |
| JUNE | 524 | 3,343 | 3,867 | 172 | 4,039 |
| JULY | 702 | 3,137 | 3,839 | 123 | 3,962 |
| AUGUST | 591 | 4,243 | 4,824 | 139 | 4,963 |
| SEPTEMBER | 1,314 | 4,253 | 5,567 | 178 | 5,745 |
| OCTOBER | 1,363 | 4,950 | 6,513 | 246 | 6,759 |
| NOVEMBER | 972 | 4,571 | 5,543 | 246 | 5,789 |
| DECEMBER | 983 | 4,043 | 5,026 | 165 | 5,191 |
| TOTAL | 11,003 | 46,783 | 57,786 | 2,061 | 59,847 |
| TOTAL VALUE-YEAR (THOUSANDS OF DOLLARS) . . . | 4,544 | 16,843 | 21,387 | 805 | 22,192 |



FROZEN FISHERY TRADE

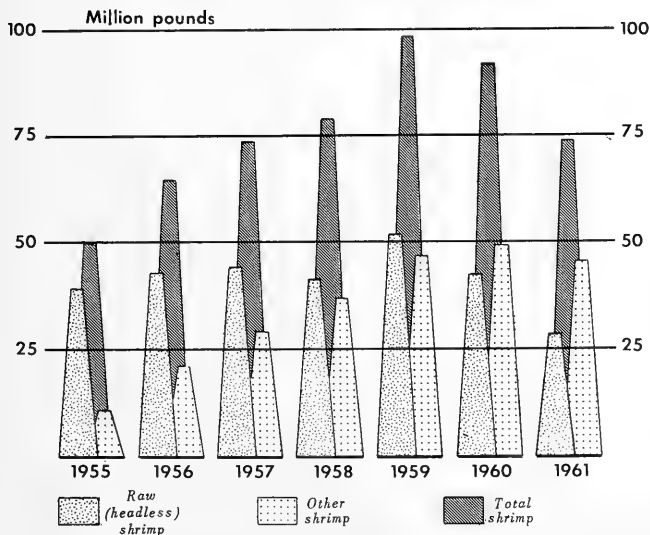
The 1961 production of frozen fish and shellfish by firms reporting to the Bureau of Commercial Fisheries totaled 319.6 million pounds. Leading products frozen during 1961 were shrimp (74 million pounds); bait and animal food (67.6 million pounds); blocks, fillets, and steaks consisting largely of ocean perch and haddock (56 million pounds); halibut (32.7 million pounds); and headed and gutted whiting (29 million pounds). These items accounted for 81 percent of the total. An estimated 509 million pounds of fish and shellfish (live weight) were required to produce the 1961 production of frozen fishery items.

New England led all other areas in freezings with 143 million pounds or 45 percent of the total, followed by the South Central with 57.3 million, the Pacific, 41.3 million, Alaska, 36 million, and the South Atlantic area, 30.9 million pounds. The Middle Atlantic, North Central East, and North Central West areas accounted for the remainder.

Data on the freezings and holdings of fishery products for 1961 were published previously in Current Fishery Statistics No. 2808. The data were also published in the monthly bulletin Frozen Fish Report, which is in the Current Fishery Statistics series.



FROZEN SHRIMP PRODUCTION, 1955-61



GENERAL REVIEW

SUMMARY OF FREEZINGS, BY MONTHS, 1961

(THOUSANDS OF POUNDS)

| SPECIES | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE |
|--|----------|----------|----------|----------|----------|----------|
| FISH | QUANTITY | QUANTITY | QUANTITY | QUANTITY | QUANTITY | QUANTITY |
| SALT-WATER: | | | | | | |
| BLOCKS | 141 | 20 | 52 | 212 | 29 | 48 |
| FILLETS AND STEAKS: | | | | | | |
| COD | 10 | 86 | 176 | 42 | 312 | 283 |
| FLOUNDER | 98 | 16 | 31 | 1,165 | 450 | 363 |
| HADDOCK | 208 | 572 | 1,056 | 236 | 1,387 | 1,346 |
| HALIBUT | - | - | - | 69 | 152 | 426 |
| OCEAN PERCH | 1,056 | 1,730 | 1,804 | 1,453 | 3,555 | 3,644 |
| POLLOCK | 275 | 148 | 54 | 116 | 163 | 244 |
| SALMON | - | - | - | - | 2 | 2 |
| WHITING | 1 | - | 1 | 1 | 30 | 361 |
| UNCLASSIFIED | 57 | 62 | 125 | 222 | 261 | 246 |
| TOTAL FILLETS AND STEAKS | 1,705 | 2,634 | 3,247 | 3,304 | 6,320 | 6,915 |
| TOTAL BLOCKS, FILLETS, AND STEAKS | 1,846 | 2,654 | 3,299 | 3,516 | 6,349 | 6,963 |
| ROUND, DRESSED, ETC.: | | | | | | |
| HALIBUT | - | - | - | 682 | 9,029 | 8,353 |
| MACKEREL (EXCEPT SPANISH) | 34 | 23 | 17 | 6 | 6 | 21 |
| SABLEFISH | 4 | 1 | 3 | 13 | 49 | 54 |
| SALMON: | | | | | | |
| CHINOOK OR KING | - | - | - | 10 | 300 | 525 |
| SILVER OR COHO | - | - | - | - | - | 173 |
| CHUM OR KETA | - | - | - | - | - | 4 |
| OTHER | - | - | - | - | 16 | 195 |
| TOTAL SALMON | - | - | - | 10 | 316 | 897 |
| SMELT | 4 | 13 | 3 | 24 | 17 | 5 |
| TUNA | 9 | - | - | 2 | - | 5 |
| WHITING, HEADED AND GUTTED | 28 | 62 | 30 | 13 | 81 | 3,401 |
| OTHER (EXCEPT BAIT) | 2,538 | 2,456 | 3,380 | 2,482 | 2,414 | 1,642 |
| TOTAL SALT-WATER FISH | 4,463 | 5,209 | 6,732 | 6,748 | 18,261 | 21,341 |
| FRESH-WATER: | | | | | | |
| FILLETS AND STEAKS | - | - | - | - | 2 | - |
| ROUND, DRESSED, ETC.: | | | | | | |
| CHUBS | 96 | - | 8 | 31 | 116 | 41 |
| TROUT | 51 | 47 | 56 | 46 | 38 | 47 |
| WHITEFISH | 9 | - | 15 | 5 | 4 | 15 |
| OTHER (EXCEPT BAIT) | 143 | 76 | 99 | 27 | 173 | 378 |
| TOTAL FRESH-WATER FISH | 299 | 123 | 178 | 109 | 333 | 481 |
| BAIT AND ANIMAL FOOD (SALT- AND FRESH-WATER) | 3,324 | 3,399 | 2,664 | 4,488 | 9,472 | 8,154 |
| SHELLFISH | | | | | | |
| CRABS (INCLUDING CRAB MEAT) | 469 | 657 | 269 | 146 | 146 | 100 |
| SPINY LOBSTER (TAILS) | 166 | 162 | 93 | 4 | 4 | - |
| OYSTER MEATS | 212 | 132 | 307 | 109 | 50 | 30 |
| SCALLOP MEATS | 75 | 85 | 133 | 145 | 257 | 304 |
| SHRIMP: | | | | | | |
| RAW (HEADLESS) | 1,644 | 1,283 | 1,190 | 819 | 1,869 | 2,393 |
| ALL OTHER (INCLUDING BREADED) | 4,684 | 4,517 | 4,602 | 2,623 | 3,046 | 3,364 |
| TOTAL SHRIMP | 6,328 | 5,800 | 5,992 | 3,442 | 4,915 | 5,757 |
| SQUID | 39 | 34 | 70 | 27 | 115 | 144 |
| OTHER | 16 | 48 | 21 | 43 | 44 | 72 |
| TOTAL SHELLFISH | 7,307 | 6,918 | 6,885 | 3,916 | 5,531 | 6,407 |
| TOTAL FISH AND SHELLFISH | 15,393 | 15,649 | 16,459 | 15,261 | 33,597 | 36,383 |

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

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SUMMARY OF FREEZINGS, BY MONTHS, 1961 - Continued

(THOUSANDS OF POUNDS)

| SPECIES | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | TOTAL |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| FISH | <u>QUANTITY</u> | <u>QUANTITY</u> | <u>QUANTITY</u> | <u>QUANTITY</u> | <u>QUANTITY</u> | <u>QUANTITY</u> | <u>QUANTITY</u> |
| SALT-WATER: | | | | | | | |
| BLOCKS | 52 | 115 | 123 | 98 | 25 | 275 | 1,190 |
| FILLETS AND STEAKS: | | | | | | | |
| COD | 238 | 153 | 172 | 226 | 271 | 129 | 2,096 |
| FLounder | 512 | 687 | 449 | 354 | 655 | 470 | 5,480 |
| Haddock | 1,176 | 1,160 | 931 | 1,579 | 939 | 743 | 11,333 |
| Halibut | 345 | 314 | 279 | 174 | 170 | - | 1,929 |
| Ocean Perch | 3,080 | 3,072 | 2,690 | 2,057 | 1,677 | 1,272 | 27,100 |
| Pollock | 29 | 120 | 62 | 238 | 526 | 658 | 2,833 |
| Salmon | 3 | 6 | - | 18 | 9 | - | 38 |
| Whiting | 408 | 409 | 308 | 276 | 327 | 40 | 2,162 |
| UNCLASSIFIED | 226 | 429 | 92 | 176 | 125 | 72 | 2,113 |
| TOTAL FILLETS AND STEAKS | 6,017 | 6,350 | 4,983 | 5,328 | 4,699 | 3,584 | 55,086 |
| TOTAL BLOCKS, FILLETS, AND STEAKS | 6,069 | 6,465 | 5,106 | 5,426 | 4,724 | 3,659 | 56,276 |
| ROUND, DRESSED, ETC.: | | | | | | | |
| Halibut | 7,334 | 5,199 | 1,623 | 486 | 2 | - | 32,708 |
| Mackerel (except Spanish) | 111 | 46 | 19 | 129 | 74 | 36 | 522 |
| Sablefish | 86 | 243 | 1,402 | 872 | 221 | 25 | 2,973 |
| SALMON: | | | | | | | |
| Chinook or King | 845 | 971 | 394 | 113 | 30 | - | 3,188 |
| Silver or Coho | 605 | 839 | 1,085 | 571 | 25 | - | 3,296 |
| Chum or Keta | 69 | 181 | 796 | 810 | 247 | - | 2,107 |
| Other | 1,407 | 795 | 451 | 88 | 5 | - | 2,957 |
| TOTAL SALMON | 2,926 | 2,786 | 2,726 | 1,582 | 307 | - | 11,550 |
| SMELT | 62 | 41 | 12 | 3 | 9 | 3 | 196 |
| Swordfish | 19 | 9 | 6 | 2 | - | - | 38 |
| Tuna | 175 | 68 | 111 | 48 | 1 | 2 | 441 |
| Whiting, headed and gutted | 10,295 | 7,339 | 3,614 | 2,586 | 1,407 | 198 | 29,054 |
| Other (except bait) | 1,628 | 2,255 | 2,629 | 2,973 | 3,335 | 3,792 | 31,524 |
| TOTAL SALT-WATER FISH | 28,705 | 24,471 | 17,250 | 14,107 | 10,080 | 7,915 | 165,282 |
| FRESH-WATER: | | | | | | | |
| FILLETS AND STEAKS | - | 1 | 2 | 11 | 7 | 1 | 24 |
| ROUND, DRESSED, ETC.: | | | | | | | |
| Chubs | 80 | 119 | 35 | 64 | 121 | 92 | 803 |
| Trout | 67 | 69 | 55 | 52 | 44 | 44 | 616 |
| Whitefish | 48 | 14 | 18 | 5 | 14 | 55 | 202 |
| Other (except bait) | 115 | 100 | 122 | 129 | 166 | 82 | 1,610 |
| TOTAL FRESH-WATER FISH | 310 | 303 | 232 | 261 | 352 | 274 | 3,255 |
| BAIT AND ANIMAL FOOD (SALT- AND FRESH-WATER) | 7,153 | 7,371 | 5,315 | 6,498 | 6,705 | 3,021 | 67,564 |
| SHELLFISH | | | | | | | |
| CRABS (INCLUDING CRAB MEAT) | 247 | 237 | 440 | 446 | 209 | 173 | 3,539 |
| Spiny Lobster (tails) | - | - | 1 | 11 | 80 | 7 | 530 |
| Oyster Meats | 60 | - | 2 | 28 | 113 | 139 | 1,192 |
| Scallop Meats | 250 | 449 | 224 | 295 | 285 | 287 | 2,789 |
| SHRIMP: | | | | | | | |
| RAW (HEADLESS) | 2,671 | 3,760 | 3,898 | 4,423 | 2,746 | 1,676 | 28,372 |
| ALL OTHER (INCLUDING BREADED) | 4,012 | 3,379 | 3,370 | 4,269 | 4,269 | 3,314 | 45,649 |
| TOTAL SHRIMP | 6,683 | 7,139 | 7,268 | 8,692 | 7,015 | 4,990 | 74,021 |
| SQUID | 126 | 108 | 79 | 6 | 14 | 20 | 782 |
| OTHER | 43 | 49 | 36 | 101 | 89 | 77 | 641 |
| TOTAL SHELLFISH | 7,409 | 7,982 | 8,052 | 9,579 | 7,805 | 5,693 | 83,484 |
| TOTAL FISH AND SHELLFISH | 43,577 | 40,127 | 30,849 | 30,445 | 24,942 | 16,903 | 319,585 |

NOTE:--PRODUCTION OF FISH FROZEN ON UNITED STATES FISHING OR TRANSPORTING CRAFT IS NOT INCLUDED IN THIS REPORT.

GENERAL REVIEW

SUMMARY OF FREEZINGS, BY SECTIONS, 1961

(THOUSANDS OF POUNDS)

| SPECIES | NEW ENGLAND | MIDDLE ATLANTIC | SOUTH ATLANTIC | NORTH CENTRAL, EAST | NORTH CENTRAL, WEST |
|--|-------------|-----------------|----------------|---------------------|---------------------|
| FISH | QUANTITY | QUANTITY | QUANTITY | QUANTITY | QUANTITY |
| SALT-WATER: | | | | | |
| BLOCKS | 1,045 | - | 96 | - | - |
| FILLETS AND STEAKS: | | | | | |
| COD | 1,973 | 16 | - | - | - |
| FLOUNDER | 4,783 | - | 30 | - | - |
| HADDOCK | 11,330 | 3 | - | - | - |
| OCEAN PERCH | 26,575 | 1 | - | - | - |
| POLLOCK | 2,633 | - | - | - | - |
| WHITING | 2,143 | 19 | - | - | - |
| UNCLASSIFIED | 204 | - | 613 | - | 6 |
| TOTAL FILLETS AND STEAKS | 49,841 | 39 | 843 | - | 6 |
| TOTAL BLOCKS, FILLETS, AND STEAKS | 50,886 | 39 | 939 | - | 6 |
| ROUND, DRESSED, ETC.: | | | | | |
| HALIBUT | 10 | - | - | - | - |
| MACKEREL (EXCEPT SPANISH) | 187 | 51 | - | - | - |
| SMELT | 16 | 31 | - | 20 | - |
| SWORDFISH | 16 | - | - | - | - |
| WHITING, HEADED AND GUTTED | 26,676 | 378 | - | - | - |
| OTHER (EXCEPT BAIT) | 16,644 | 1,927 | 6,215 | 36 | 6 |
| TOTAL SALT-WATER FISH | 96,435 | 2,426 | 7,154 | 56 | 12 |
| FRESH-WATER: | | | | | |
| FILLETS AND STEAKS | - | - | - | 24 | - |
| ROUND, DRESSED, ETC.: | | | | | |
| CHUBS | 43 | 199 | - | 456 | 105 |
| TROUT | - | - | - | - | 8 |
| WHITEFISH | 1 | 166 | - | - | 35 |
| OTHER (EXCEPT BAIT) | - | 552 | 8 | 390 | 514 |
| TOTAL FRESH-WATER FISH | 44 | 917 | 8 | 870 | 662 |
| BAIT AND ANIMAL FOOD (SALT- AND FRESH-WATER) | 44,142 | 2,185 | 924 | 391 | 2,010 |
| SHELLFISH | | | | | |
| CRABS (INCLUDING CRAB MEAT) | 1 | - | 663 | - | - |
| SPINY LOBSTER (TAILS) | - | - | 60 | - | - |
| OYSTER MEATS | - | - | 748 | - | - |
| SCALLOP MEATS | 1,890 | 178 | 685 | - | - |
| SHRIMP: | | | | | |
| RAW (HEADLESS) | 244 | 596 | 2,477 | - | - |
| ALL OTHER (INCLUDING BREADED) | - | - | 17,821 | - | 3 |
| TOTAL SHRIMP | 244 | 596 | 20,298 | - | 3 |
| SQUID | 160 | 455 | 28 | - | - |
| OTHER | 114 | 172 | 133 | - | 2 |
| TOTAL SHELLFISH | 2,409 | 1,411 | 22,615 | - | 5 |
| TOTAL FISH AND SHELLFISH | 143,030 | 6,939 | 30,901 | 1,317 | 2,689 |

NOTE:--THE SECTIONS INDICATED INCLUDE THE FOLLOWING STATES:
 NEW ENGLAND--MAINE, MASSACHUSETTS, RHODE ISLAND, AND CONNECTICUT.
 MIDDLE ATLANTIC--NEW YORK, NEW JERSEY, AND PENNSYLVANIA.
 SOUTH ATLANTIC--MARYLAND, DISTRICT OF COLUMBIA, VIRGINIA, NORTH CAROLINA, GEORGIA, AND FLORIDA.
 NORTH CENTRAL, EAST--OHIO, INDIANA, ILLINOIS, MICHIGAN, AND WISCONSIN.
 NORTH CENTRAL, WEST--MINNESOTA, IOWA, MISSOURI, NORTH DAKOTA, NEBRASKA, AND KANSAS.

(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

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SUMMARY OF FREEZINGS, BY SECTIONS, 1961 - Continued

(THOUSANDS OF POUNDS)

| SPECIES | SOUTH CENTRAL | PACIFIC | ALASKA | TOTAL |
|--|-----------------|-----------------|-----------------|-----------------|
| FISH | <u>QUANTITY</u> | <u>QUANTITY</u> | <u>QUANTITY</u> | <u>QUANTITY</u> |
| SALT-WATER: BLOCKS. | - | 49 | - | 1,190 |
| FILLETS AND STEAKS: | | | | |
| COD | - | 100 | 9 | 2,098 |
| FLOUNDER | 49 | 618 | - | 5,480 |
| HADDOCK | - | - | - | 11,333 |
| HALIBUT | - | 1,274 | 655 | 1,929 |
| OCEAN PERCH | - | 524 | - | 27,100 |
| POLLOCK | - | - | - | 2,833 |
| SALMON | - | 38 | - | 36 |
| WHITING | - | - | - | 2,162 |
| UNCLASSIFIED | 15 | 1,072 | 3 | 2,113 |
| TOTAL FILLETS AND STEAKS. | 64 | 3,626 | 667 | 55,086 |
| TOTAL BLOCKS, FILLETS, AND STEAKS | 64 | 3,675 | 667 | 56,276 |
| ROUND, DRESSED, ETC.: | | | | |
| HALIBUT | - | 9,922 | 22,776 | 32,708 |
| MACKEREL (EXCEPT SPANISH) | - | 284 | - | 522 |
| SABLEFISH | - | 1,789 | 1,184 | 2,973 |
| SALMON: | | | | |
| CHINOOK OR KING | - | 1,573 | 1,615 | 3,188 |
| SILVER OR COHO | - | 1,737 | 1,561 | 3,298 |
| CHUM OR KETA | - | 735 | 1,372 | 2,107 |
| OTHER | - | 350 | 2,607 | 2,957 |
| TOTAL SALMON. | - | 4,395 | 7,155 | 11,550 |
| SMELT | - | 129 | - | 196 |
| SWORDFISH | - | 22 | - | 38 |
| TUNA | - | 441 | - | 441 |
| WHITING, HEADED AND GUTTED. | - | - | - | 29,054 |
| OTHER (EXCEPT BAIT) | 3,720 | 2,513 | 463 | 31,524 |
| TOTAL SALT-WATER FISH | 3,784 | 23,170 | 32,245 | 165,282 |
| FRESH-WATER: | | | | |
| FILLETS AND STEAKS. | - | - | - | 24 |
| ROUND, DRESSED, ETC.: | | | | |
| CHUBS | - | - | - | 803 |
| TROUT | - | 608 | - | 616 |
| WHITEFISH | - | - | - | 202 |
| OTHER (EXCEPT BAIT) | 105 | 41 | - | 1,610 |
| TOTAL FRESH-WATER FISH. | 105 | 649 | - | 3,255 |
| BAIT AND ANIMAL FOOD (SALT- AND FRESH-WATER) | 518 | 15,063 | 2,331 | 67,564 |
| SHELLFISH | | | | |
| CRABS (INCLUDING CRAB MEAT) | 77 | 1,123 | 1,475 | 3,539 |
| SPINY LOBSTER (TAILS) | 7 | 463 | - | 530 |
| OYSTER MEATS | 256 | 178 | - | 1,152 |
| SCALLOP MEATS | - | 36 | - | 2,789 |
| SHRIMP: | | | | |
| RAW (HEADLESS) | 24,743 | 267 | 45 | 29,372 |
| ALL OTHER (INCLUDING BREADED) | 27,799 | - | 26 | 45,649 |
| TOTAL SHRIMP. | 52,542 | 267 | 71 | 74,021 |
| SQUID | 24 | 105 | - | 782 |
| OTHER | - | 206 | 14 | 641 |
| TOTAL SHELLFISH | 52,906 | 2,378 | 1,560 | 83,484 |
| TOTAL FISH AND SHELLFISH. | 57,313 | 41,260 | 36,136 | 319,585 |

NOTE:--THE SECTIONS INDICATED INCLUDE THE FOLLOWING STATES:
 SOUTH CENTRAL--KENTUCKY, TENNESSEE, ALABAMA, MISSISSIPPI, LOUISIANA, TEXAS, OKLAHOMA, AND ARKANSAS.
 PACIFIC--WASHINGTON, OREGON, CALIFORNIA, ARIZONA, COLORADO, UTAH, AND IDAHO.
 ALASKA.
 PRODUCTION OF FISH FROZEN ON UNITED STATES FISHING OR TRANSPORTING CRAFT IS NOT INCLUDED IN THIS TABLE.

GENERAL REVIEW

SUMMARY OF FREEZINGS, BY SECTIONS AND MONTHS, 1961

(THOUSANDS OF POUNDS)

| MONTH | NEW ENGLAND | MIDDLE ATLANTIC | SOUTH ATLANTIC | NORTH CENTRAL, EAST | NORTH CENTRAL, WEST |
|---------------------|-------------|-----------------|----------------|---------------------|---------------------|
| | QUANTITY | QUANTITY | QUANTITY | QUANTITY | QUANTITY |
| JANUARY | 4,609 | 419 | 2,761 | 68 | 28 |
| FEBRUARY | 6,308 | 355 | 2,552 | 39 | - |
| MARCH | 6,834 | 272 | 3,100 | - | 4 |
| APRIL | 6,863 | 522 | 2,341 | 57 | 7 |
| MAY | 13,612 | 1,358 | 2,312 | 130 | 260 |
| JUNE | 16,969 | 476 | 1,999 | 73 | 314 |
| JULY | 22,227 | 758 | 2,093 | 62 | 13 |
| AUGUST | 19,606 | 792 | 2,085 | 97 | 42 |
| SEPTEMBER | 13,791 | 536 | 2,147 | 83 | 19 |
| OCTOBER | 14,336 | 555 | 2,645 | 123 | 29 |
| NOVEMBER | 11,061 | 542 | 3,516 | 350 | 1,633 |
| DECEMBER | 6,614 | 354 | 3,350 | 235 | 320 |
| TOTAL | 143,030 | 6,939 | 30,901 | 1,317 | 2,689 |

| MONTH | SOUTH CENTRAL | PACIFIC | ALASKA | TOTAL |
|---------------------|---------------|----------|----------|----------|
| | QUANTITY | QUANTITY | QUANTITY | QUANTITY |
| JANUARY | 4,340 | 2,163 | 1,005 | 15,393 |
| FEBRUARY | 4,032 | 1,853 | 510 | 15,649 |
| MARCH | 4,260 | 1,433 | 556 | 16,459 |
| APRIL | 2,498 | 2,163 | 810 | 15,261 |
| MAY | 3,698 | 6,263 | 5,944 | 33,597 |
| JUNE | 4,387 | 5,111 | 7,054 | 36,383 |
| JULY | 5,243 | 5,157 | 6,024 | 43,577 |
| AUGUST | 6,442 | 4,648 | 6,215 | 40,127 |
| SEPTEMBER | 5,867 | 4,213 | 4,173 | 30,849 |
| OCTOBER | 7,309 | 3,862 | 1,586 | 30,445 |
| NOVEMBER | 5,162 | 2,520 | 158 | 24,942 |
| DECEMBER | 4,055 | 1,874 | 101 | 16,903 |
| TOTAL | 57,313 | 41,260 | 36,136 | 319,585 |

NOTE:--THE STATES INCLUDED IN THE VARIOUS SECTIONS ARE INDICATED ON PAGES 60 AND 61.



COLD STORAGE HOLDINGS OF FROZEN FISHERY PRODUCTS

Holdings of frozen fishery products in 1961 were highest on January 1, when 230.5 million pounds were in storage. The lowpoint occurred 4 months later on May 1, when stocks totaled only 150.2 million pounds.

Shrimp was the principal item held in storage throughout the year, with cod (blocks and fillets) in second place.

The failure of the shrimp fishery in the South Atlantic and Gulf States was reflected in a sharp decline in the stocks of these shellfish during the year, which fell from 54.5 million pounds on January 1, to 28.3 million pounds at the end of the year.

GENERAL REVIEW

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SUMMARY OF HOLDINGS, BY MONTHS, 1961

(THOUSANDS OF POUNDS)

| SPECIES | JANUARY 1 | JANUARY 31 | FEBRUARY 28 | MARCH 31 | APRIL 30 | MAY 31 |
|---|--------------|---------------|----------------|-------------|-------------|-----------|
| FISH | QUANTITY | QUANTITY | QUANTITY | QUANTITY | QUANTITY | QUANTITY |
| SALT-WATER: BLOCKS | 24,835 | 21,773 | 17,979 | 14,037 | 14,242 | 13,686 |
| FILLETS AND STEAKS: | | | | | | |
| COD | 7,803 | 6,902 | 4,969 | 5,254 | 5,408 | 7,114 |
| FLOUNDER | 7,463 | 6,515 | 4,463 | 3,607 | 3,242 | 3,429 |
| HADDOCK | 8,088 | 7,272 | 7,035 | 9,388 | 10,418 | 10,897 |
| HALIBUT | 1,940 | 2,372 | 2,429 | 2,199 | 1,741 | 1,533 |
| OCEAN PERCH | 13,742 | 10,107 | 7,012 | 5,549 | 4,658 | 5,178 |
| POLLOCK | 1,298 | 1,143 | 777 | 553 | 534 | 488 |
| SALMON | 168 | 187 | 148 | 205 | 212 | 113 |
| WHITING | 2,247 | 1,682 | 1,200 | 879 | 794 | 556 |
| UNCLASSIFIED | 7,083 | 5,645 | 4,844 | 3,947 | 4,289 | 4,676 |
| TOTAL FILLETS AND STEAKS | 49,832 | 41,825 | 32,877 | 31,581 | 31,296 | 33,964 |
| TOTAL BLOCKS, FILLETS, AND STEAKS | 74,667 | 63,598 | 50,856 | 45,618 | 45,538 | 47,670 |
| FISH STICKS AND PORTIONS (RAW AND COOKED) | 9,090 | 7,501 | 5,679 | 7,408 | 8,297 | 8,244 |
| ROUND, DRESSED, ETC.: | | | | | | |
| HALIBUT | 11,727 | 9,040 | 5,800 | 3,416 | 2,927 | 8,498 |
| MACKEREL (EXCEPT SPANISH) | 1,462 | 893 | 605 | 565 | 428 | 353 |
| SABLEFISH | 3,570 | 2,811 | 2,361 | 1,898 | 1,588 | 1,411 |
| SALMON: | | | | | | |
| CHINOOK OR KING | 3,877 | 3,318 | 2,814 | 2,273 | 1,760 | 1,552 |
| SILVER OR COHO | 3,169 | 2,850 | 2,291 | 1,827 | 1,405 | 1,074 |
| CHUM OR KETA | 1,298 | 1,108 | 777 | 619 | 430 | 361 |
| OTHER | 1,079 | 964 | 981 | 621 | 386 | 426 |
| TOTAL SALMON | 9,423 | 8,240 | 6,863 | 5,340 | 3,981 | 3,413 |
| SMELT | 1,484 | 1,433 | 1,211 | 980 | 814 | 816 |
| SWORDFISH | 1,562 | 1,749 | 2,248 | 2,140 | 2,035 | 1,924 |
| TUNA | 2,253 | 1,468 | 1,352 | 956 | 1,192 | 336 |
| WHITING, HEADED AND GUTTED | 12,235 | 9,690 | 6,681 | 3,300 | 2,181 | 915 |
| OTHER (EXCEPT BAIT) | 19,006 | 16,560 | 10,758 | 14,284 | 13,360 | 13,610 |
| TOTAL SALT-WATER FISH | 146,279 | 122,983 | 94,414 | 85,905 | 81,341 | 87,192 |
| FRESH-WATER: | | | | | | |
| FILLETS AND STEAKS | 2,327 | 1,383 | 901 | 586 | 501 | 488 |
| ROUND, DRESSED, ETC.: | | | | | | |
| CHUBS | 751 | 1,459 | 974 | 555 | 497 | 802 |
| TROUT | 848 | 781 | 706 | 677 | 772 | 721 |
| WHITEFISH | 1,516 | 1,343 | 1,403 | 1,319 | 1,224 | 973 |
| OTHER (EXCEPT BAIT) | 2,705 | 2,833 | 2,299 | 2,135 | 1,983 | 2,368 |
| TOTAL FRESH-WATER FISH | 8,147 | 7,799 | 6,283 | 5,272 | 4,977 | 5,352 |
| BAIT AND ANIMAL FOOD (SALT- AND FRESH-WATER) | 9,546 | 9,137 | 9,765 | 11,120 | 12,619 | 18,751 |
| SHELLFISH | | | | | | |
| CRABS (INCLUDING CRAB MEAT) | 1,561 | 2,014 | 2,228 | 2,553 | 2,833 | 2,711 |
| SPINY LOBSTER (TAILS) | 4,241 | 4,333 | 5,820 | 6,118 | 5,304 | 6,024 |
| OYSTER MEATS | 936 | 1,029 | 959 | 1,107 | 1,072 | 1,165 |
| SCALLOP MEATS | 3,100 | 2,612 | 1,952 | 1,373 | 1,365 | 1,541 |
| SHRIMP: | | | | | | |
| RAW (HEADLESS) | 40,913 | 37,842 | 37,612 | 31,345 | 27,492 | 24,696 |
| ALL OTHER (INCLUDING BREADED) | 13,441 | 13,871 | 11,413 | 10,758 | 11,345 | 8,683 |
| TOTAL SHRIMP | 54,354 | 51,713 | 49,025 | 42,103 | 38,837 | 33,379 |
| SQUID | 549 | 487 | 461 | 419 | 322 | 407 |
| OTHER | 1,750 | 1,503 | 1,373 | 1,311 | 1,267 | 1,212 |
| TOTAL SHELLFISH | 66,491 | 63,691 | 61,818 | 54,984 | 51,220 | 46,439 |
| TOTAL FISH AND SHELLFISH | 230,463 | 203,610 | 172,280 | 157,281 | 150,157 | 157,734 |

(CONTINUED ON NEXT PAGE)



GENERAL REVIEW

SUMMARY OF HOLDINGS, BY MONTHS, 1961 - Continued

(THOUSANDS OF POUNDS)

| SPECIES | JUNE 30 | JULY 31 | AUGUST 31 | SEPTEMBER 30 | OCTOBER 31 | NOVEMBER 30 | DECEMBER 31 |
|---|------------|------------|--------------|-----------------|---------------|----------------|----------------|
| FISH | | | | | | | |
| SALT-WATER: | | | | | | | |
| BLOCKS | 17,679 | 24,166 | 23,517 | 24,061 | 21,156 | 20,025 | 17,677 |
| FILLETS AND STEAKS: | | | | | | | |
| COD | 7,918 | 8,510 | 7,919 | 7,526 | 8,905 | 9,179 | 7,055 |
| FLOUNDER | 4,164 | 4,778 | 5,289 | 4,749 | 5,284 | 5,711 | 6,054 |
| HADDOCK | 10,576 | 8,804 | 10,908 | 11,724 | 10,509 | 10,715 | 10,302 |
| HALIBUT | 2,019 | 1,965 | 2,146 | 2,634 | 3,878 | 2,795 | 2,066 |
| OCEAN PERCH | 7,338 | 8,353 | 10,856 | 11,910 | 13,213 | 12,831 | 12,981 |
| POLLOCK | 564 | 484 | 612 | 586 | 502 | 809 | 1,373 |
| SALMON | 148 | 128 | 129 | 142 | 145 | 162 | 152 |
| WHITING | 772 | 1,238 | 1,834 | 2,072 | 2,226 | 2,261 | 2,126 |
| UNCLASSIFIED | 5,537 | 6,516 | 5,222 | 7,084 | 8,019 | 7,081 | 6,373 |
| TOTAL FILLETS AND STEAKS | 39,036 | 40,776 | 44,915 | 48,427 | 52,761 | 51,664 | 48,482 |
| TOTAL BLOCKS, FILLETS, AND STEAKS | 56,715 | 64,942 | 68,432 | 72,488 | 73,937 | 71,689 | 66,159 |
| FISH STICKS AND PORTIONS (RAW AND COOKED), ROUND, DRESSED, ETC.: | | | | | | | |
| HALIBUT | 13,950 | 19,486 | 20,555 | 16,165 | 14,667 | 12,709 | 10,878 |
| MACKEREL (EXCEPT SPANISH) | 273 | 383 | 428 | 394 | 552 | 801 | 754 |
| SABLEFISH | 1,149 | 993 | 917 | 1,934 | 2,146 | 2,393 | 1,999 |
| SALMON: | | | | | | | |
| CHINOOK OR KING | 1,779 | 2,929 | 3,976 | 4,038 | 2,812 | 3,664 | 3,298 |
| SILVER OR COHO | 981 | 1,377 | 2,523 | 3,825 | 4,096 | 3,811 | 3,537 |
| CHUM OR KETA | 265 | 343 | 376 | 936 | 1,073 | 978 | 941 |
| OTHER | 811 | 2,181 | 2,131 | 1,748 | 1,603 | 1,218 | 1,192 |
| TOTAL SALMON | 3,836 | 6,830 | 9,005 | 10,547 | 9,586 | 9,671 | 8,968 |
| SMELT | | | | | | | |
| SMELT | 808 | 845 | 941 | 1,146 | 1,214 | 1,353 | 1,278 |
| SHORDFISH | 1,694 | 1,659 | 1,764 | 2,130 | 2,036 | 2,154 | 2,350 |
| TUNA | 201 | 472 | 830 | 2,152 | 411 | 359 | 1,203 |
| WHITING, HEADED AND GUTTED | 2,381 | 9,294 | 13,301 | 13,856 | 14,316 | 14,344 | 12,367 |
| OTHER (EXCEPT BAIT) | 12,987 | 13,179 | 14,961 | 15,147 | 17,095 | 16,971 | 16,999 |
| TOTAL SALT-WATER FISH | 102,687 | 125,743 | 139,616 | 146,566 | 145,593 | 141,399 | 133,466 |
| FRESH-WATER: | | | | | | | |
| FILLETS AND STEAKS | 509 | 588 | 671 | 996 | 1,300 | 1,808 | 1,557 |
| ROUND, DRESSED, ETC.: | | | | | | | |
| CHUBS | 887 | 950 | 1,090 | 1,139 | 1,168 | 1,386 | 1,533 |
| TROUT | 711 | 728 | 855 | 1,081 | 1,180 | 1,185 | 1,134 |
| WHITFISH | 1,037 | 1,351 | 1,580 | 1,750 | 918 | 692 | 1,802 |
| OTHER (EXCEPT BAIT) | 2,853 | 2,945 | 2,967 | 3,167 | 3,127 | 3,533 | 2,922 |
| TOTAL FRESH-WATER FISH | 5,997 | 6,562 | 7,163 | 8,133 | 7,693 | 8,604 | 8,948 |
| BAIT AND ANIMAL FOOD (SALT- AND FRESH-WATER) | | | | | | | |
| | 20,209 | 19,791 | 17,418 | 14,602 | 12,328 | 12,404 | 11,726 |
| SHELLFISH | | | | | | | |
| CRABS (INCLUDING CRAB MEAT) | 2,542 | 2,440 | 2,517 | 1,972 | 2,461 | 2,192 | 2,085 |
| SPINY LOBSTER (TAILS) | 5,593 | 6,113 | 5,818 | 5,138 | 5,373 | 5,334 | 5,123 |
| OYSTER MEATS | 1,049 | 978 | 802 | 859 | 852 | 663 | 823 |
| SCALLOP MEATS | 1,823 | 1,979 | 2,396 | 2,727 | 3,170 | 3,207 | 2,959 |
| SHRIMP: | | | | | | | |
| RAW (HEADLESS) | 19,416 | 14,849 | 12,728 | 13,361 | 17,811 | 20,668 | 19,755 |
| ALL OTHER (INCLUDING BREADED) | 9,026 | 8,554 | 7,602 | 7,380 | 8,482 | 9,191 | 8,540 |
| TOTAL SHRIMP | 28,442 | 23,403 | 20,330 | 20,741 | 26,293 | 29,859 | 28,295 |
| SQUID | | | | | | | |
| OTHER | 625 | 840 | 890 | 982 | 1,065 | 1,212 | 1,448 |
| | 1,258 | 1,626 | 1,841 | 1,952 | 2,032 | 2,015 | 1,880 |
| TOTAL SHELLFISH | 41,332 | 37,379 | 34,596 | 34,371 | 41,246 | 44,682 | 42,613 |
| TOTAL FISH AND SHELLFISH | 170,225 | 189,475 | 198,793 | 203,672 | 206,660 | 207,089 | 196,753 |



GENERAL REVIEW

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SUMMARY OF HOLDINGS, BY SECTIONS AND MONTHS, 1961

(THOUSANDS OF POUNDS)

| DATE | NEW ENGLAND | MIDDLE ATLANTIC | SOUTH ATLANTIC | NORTH CENTRAL, EAST | NORTH CENTRAL, WEST |
|--------------|-------------|-----------------|----------------|---------------------|---------------------|
| | QUANTITY | QUANTITY | QUANTITY | QUANTITY | QUANTITY |
| JANUARY 1 | 60,900 | 45,538 | 12,316 | 25,899 | 10,669 |
| JANUARY 31 | 48,513 | 43,395 | 11,922 | 22,471 | 9,681 |
| FEBRUARY 28 | 36,371 | 39,725 | 9,378 | 19,239 | 9,303 |
| MARCH 31 | 32,127 | 35,545 | 9,147 | 17,276 | 7,878 |
| APRIL 30 | 31,350 | 35,741 | 9,869 | 16,119 | 7,377 |
| MAY 31 | 35,746 | 37,283 | 9,112 | 14,642 | 6,976 |
| JUNE 30 | 45,852 | 35,853 | 8,387 | 16,718 | 7,665 |
| JULY 31 | 57,523 | 36,555 | 6,418 | 18,337 | 7,696 |
| AUGUST 31 | 68,479 | 30,961 | 6,536 | 21,395 | 8,511 |
| SEPTEMBER 30 | 70,504 | 34,296 | 6,226 | 23,149 | 8,518 |
| OCTOBER 31 | 68,816 | 32,649 | 6,889 | 25,297 | 9,093 |
| NOVEMBER 30 | 69,869 | 37,005 | 8,812 | 26,650 | 10,251 |
| DECEMBER 31 | 65,453 | 32,109 | 10,210 | 24,885 | 10,567 |

| DATE | SOUTH CENTRAL | PACIFIC | ALASKA | TOTAL |
|--------------|---------------|----------|----------|----------|
| | QUANTITY | QUANTITY | QUANTITY | QUANTITY |
| JANUARY 1 | 25,957 | 43,105 | 5,079 | 230,463 |
| JANUARY 31 | 24,000 | 39,907 | 3,721 | 203,610 |
| FEBRUARY 28 | 18,730 | 36,847 | 2,687 | 172,280 |
| MARCH 31 | 16,337 | 33,713 | 4,258 | 157,281 |
| APRIL 30 | 14,278 | 31,073 | 4,350 | 150,157 |
| MAY 31 | 11,393 | 35,073 | 7,509 | 157,734 |
| JUNE 30 | 10,767 | 34,035 | 10,948 | 170,225 |
| JULY 31 | 11,695 | 36,426 | 14,825 | 189,475 |
| AUGUST 31 | 12,124 | 35,064 | 15,703 | 198,793 |
| SEPTEMBER 30 | 13,598 | 32,150 | 15,231 | 203,672 |
| OCTOBER 31 | 16,468 | 38,170 | 9,478 | 206,860 |
| NOVEMBER 30 | 15,958 | 33,267 | 6,267 | 207,089 |
| DECEMBER 31 | 14,974 | 33,639 | 4,916 | 196,753 |

NOTE:--THE STATES INCLUDED IN THE VARIOUS SECTIONS ARE INDICATED ON PAGES 60 AND 61.

COLD STORAGE HOLDINGS OF CURED FISH

Average monthly holdings of salted and smoked cured fish in 1961 totaled 13.5 million pounds. Cold storage stocks averaged 6.8 million pounds of cured herring and 3.5 million pounds of mild-cured salmon. These two species accounted for 77 percent of the average cold storage inventories of cured fish.

SUMMARY OF HOLDINGS OF CURED FISH, BY MONTHS, 1961

(THOUSANDS OF POUNDS)

| DATE | SALTED | | | SMOKED | TOTAL |
|--------------|----------------|--------------------|----------|--------|--------|
| | HERRING, CURED | SALMON, MILD-CURED | OTHER | | |
| | QUANTITY | QUANTITY | QUANTITY | | |
| JANUARY 1 | 6,179 | 3,200 | 3,017 | 716 | 13,112 |
| JANUARY 31 | 6,532 | 2,593 | 2,706 | 577 | 12,408 |
| FEBRUARY 28 | 5,689 | 2,302 | 2,267 | 592 | 10,850 |
| MARCH 31 | 5,622 | 1,837 | 2,213 | 654 | 10,326 |
| APRIL 30 | 7,018 | 1,445 | 2,300 | 692 | 11,455 |
| MAY 31 | 7,143 | 1,489 | 2,401 | 729 | 11,762 |
| JUNE 30 | 7,540 | 2,849 | 2,314 | 676 | 13,379 |
| JULY 31 | 6,052 | 4,213 | 2,195 | 619 | 13,079 |
| AUGUST 31 | 6,756 | 5,030 | 2,147 | 592 | 14,527 |
| SEPTEMBER 30 | 7,195 | 5,907 | 2,690 | 688 | 16,460 |
| OCTOBER 31 | 6,418 | 5,456 | 2,291 | 716 | 14,881 |
| NOVEMBER 30 | 7,463 | 4,879 | 2,345 | 902 | 15,589 |
| DECEMBER 31 | 9,340 | 4,518 | 2,464 | 844 | 17,166 |

GENERAL REVIEW

FOREIGN FISHERY TRADE

United States foreign trade in fishery products (imports plus exports of domestic products) was valued at \$432 million in 1961--an increase of \$27.5 million compared with the previous year. The value of fishery products imported for consumption was \$397 million--the highest on record. It exceeded the former record established in 1959 by 8 percent and was 10 percent above the 1960 figure. The value of fishery products exported was \$35 million--a decline of 21 percent from the previous year.

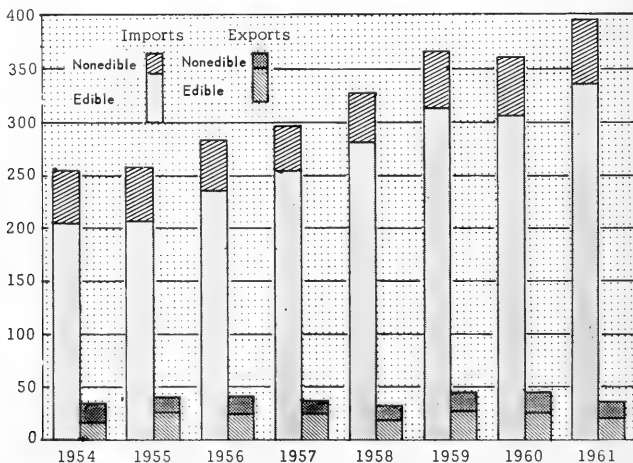
Imports of edible products in 1961 totaled 1.1 billion pounds valued at a record high of nearly \$336 million. Compared with 1960, the volume remained about the same, but the value increased by 9 percent. This gain was due to generally higher prices and changes in composition of the receipts. Major increases occurred in imports of groundfish fillets and blocks, fresh or frozen shrimp, tuna canned in brine, and sardines. Items imported in reduced volume included canned salmon and fresh or frozen sea herring, and tuna. Imports of nonedible fishery products amounted to over \$61 million--16 percent more than in 1960. Gains in receipts of fish meal, sperm whale oil, and cultured pearls accounted for the increase.

Edible fishery products exported in 1961 totaled 40 million pounds with a value of \$19.6 million--a decrease of 35 percent in quantity and 24 percent in value compared with the previous year. Exports of nonedible domestic products, valued at \$15 million, were 18 percent less.

Included in the foreign trade tables this year, for the first time, are statistics on exports of foreign fishery products. These exports during 1961 amounted to \$6.5 million compared with \$3.4 million the previous year.

IMPORTS AND EXPORTS OF FISHERY PRODUCTS, 1954-61

Million dollars



GENERAL REVIEW

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EXPORTS OF DOMESTIC FISHERY PRODUCTS, 1961

(VALUE IN THOUSANDS OF DOLLARS)

| ITEM | QUANTITY | VALUE |
|---|--------------|---------|
| EDIBLE FISHERY PRODUCTS | | |
| FRESH OR FROZEN: | | |
| FISH: | | |
| COD, HADDOCK, HAKE, POLLOCK, AND CUSK. | 1,000 POUNDS | 600 |
| SALMON | DO | 1,094 |
| OTHER | DO | 3,608 |
| TOTAL FISH. | DO | 5,302 |
| SHELLFISH: | | |
| SHRIMP | DO | 4,771 |
| OYSTERS, SHUCKED | DO | 579 |
| OTHER (INCLUDING LOBSTERS, SHUCKED CLAMS, AND OYSTERS IN THE SHELL) | DO | 906 |
| TOTAL SHELLFISH | DO | 6,256 |
| TOTAL FRESH AND FROZEN. | DO | 11,558 |
| CANNED: | | |
| FISH: | | |
| MACKEREL | DO | 3,908 |
| SALMON | DO | 7,186 |
| SARDINES: | | |
| IN OIL | DO | 185 |
| NOT IN OIL | DO | 7,475 |
| TUNA | DO | 327 |
| OTHER (INCLUDING HERRING). | DO | 454 |
| TOTAL FISH. | DO | 19,535 |
| SHELLFISH: | | |
| SHRIMP | DO | 2,503 |
| SQUID | DO | 3,432 |
| OTHER (INCLUDING CRABS AND CRAB MEAT). | DO | 1,580 |
| TOTAL SHELLFISH | DO | 7,515 |
| TOTAL CANNED. | DO | 27,050 |
| CURED, SALTED, PICKLED, OR DRY CURED: | | |
| SALMON | DO | 639 |
| MISCELLANEOUS FISH | DO | 234 |
| SHRIMP | DO | 103 |
| TOTAL CURED | DO | 976 |
| FISH, SHELLFISH, AND OTHER MARINE ANIMAL PRODUCTS (INCLUDING CANNED OR FROZEN SPECIALTIES AND SMOKED FISH AND SHELLFISH) | | |
| | DO | 553 |
| TOTAL EDIBLE FISHERY PRODUCTS | DO | 40,137 |
| NONEDIBLE FISHERY PRODUCTS | | |
| FISH AND MARINE ANIMAL BODY AND LIVER OIL (EXCEPT MEDICINAL). | | |
| WHALE AND SPERM OIL. | DO | 122,486 |
| SEAL FURS, DRESSED OR DYED | 1,000 PIECES | 1,206 |
| PEARL ESSENCE. | 1,000 POUNDS | 58 |
| SHELLS, UNMANUFACTURED | DO | 27 |
| FISH, SHELLFISH, AND OTHER MARINE ANIMAL PRODUCTS, NONEDIBLE | - | 13,345 |
| TOTAL NONEDIBLE FISHERY PRODUCTS. | - | - |
| GRAND TOTAL | - | 15,116 |
| | - | 34,710 |

NOTE:--IN ADDITION TO THE EXPORT FIGURES THAT ARE SHOWN THERE ARE LARGE QUANTITIES OF FISH OILS AND CONCENTRATES THAT ARE EXPORTED FOR MEDICINAL PURPOSES, AND OTHER MISCELLANEOUS FISHERY PRODUCTS THAT CANNOT BE SHOWN BECAUSE THE EXPORT CLASSIFICATION COVERING THESE PRODUCTS INCLUDES OTHER THAN FISHERY PRODUCTS.

GENERAL REVIEW

EXPORTS OF FOREIGN FISHERY PRODUCTS, 1961

(VALUE IN THOUSANDS OF DOLLARS)

| ITEM | | QUANTITY | VALUE |
|---|--------------|----------|-------|
| EDIBLE FISHERY PRODUCTS | | | |
| FRESH OR FROZEN: | | | |
| FISH: | | | |
| COD, HADDOCK, HAKE, POLLOCK, AND CUSK. | 1,000 POUNDS | 17 | 4 |
| SALMON | DO | 10 | 5 |
| OTHER. | DO | 345 | 109 |
| TOTAL FISH. | DO | 372 | 118 |
| SHELLFISH: | | | |
| SHRIMP | DO | 4,742 | 3,731 |
| OTHER. | DO | 179 | 137 |
| TOTAL SHELLFISH | DO | 4,921 | 3,868 |
| TOTAL FRESH AND FROZEN. | DO | 5,293 | 3,986 |
| CANNED: | | | |
| FISH: | | | |
| MACKEREL | DO | 79 | 13 |
| SALMON | DO | 4 | 3 |
| SARDINES, IN OIL | DO | 11 | 3 |
| TUNA | DO | 5 | 1 |
| OTHER. | DO | 32 | 82 |
| TOTAL FISH. | DO | 131 | 102 |
| SHELLFISH: | | | |
| SHRIMP | DO | 25 | 23 |
| SQUID. | DO | 14 | 1 |
| OTHER. | DO | 2,189 | 1,229 |
| TOTAL SHELLFISH | DO | 2,228 | 1,253 |
| TOTAL CANNED. | DO | 2,359 | 1,355 |
| CURED, SALTED, PICKLED, OR DRY CURED: | | | |
| SALMON | DO | 2 | 3 |
| MISCELLANEOUS FISH | DO | 275 | 62 |
| SHRIMP | DO | 336 | 294 |
| TOTAL CURED | DO | 613 | 359 |
| FISH, SHELLFISH, AND OTHER MARINE ANIMAL PRODUCTS (INCLUDING CANNED OR FROZEN SPECIALTIES, AND SMOKED FISH AND SHELLFISH) | DO | 148 | 103 |
| TOTAL EDIBLE FISHERY PRODUCTS | DO | 8,413 | 5,803 |
| NONEDIBLE FISHERY PRODUCTS | | | |
| FISH AND MARINE ANIMAL BODY AND LIVER OIL (EXCEPT MEDICINAL). | DO | 28 | 5 |
| WHALE AND SPERM OIL. | DO | 1,588 | 143 |
| SEAL FURS, DRESSED OR DYED | 1,000 PIECES | 3 | 74 |
| PEARL ESSENCE. | 1,000 POUNDS | (1) | 1 |
| SHELLS, UNMANUFACTURED | DO | 178 | 43 |
| FISH, SHELLFISH, AND OTHER MARINE ANIMAL PRODUCTS, NONEDIBLE | - | - | 400 |
| TOTAL NONEDIBLE FISHERY PRODUCTS. | - | - | 666 |
| GRAND TOTAL | - | - | 6,469 |

1/ LESS THAN 500 POUNDS.

GENERAL REVIEW

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IMPORTS OF FISHERY PRODUCTS ENTERED FOR CONSUMPTION, 1961

(VALUE IN THOUSANDS OF DOLLARS)

| ITEM | QUANTITY | VALUE |
|---|--------------|-----------|
| EDIBLE FISHERY PRODUCTS | | |
| FRESH OR FROZEN: | | |
| FISH: | | |
| WHETHER OR NOT WHOLE (EXCEPT FILLETS, STEAKS, ETC.): | | |
| FRESH-WATER: | | |
| LAKE HERRING, CISCO, AND CHUB. | 1,000 POUNDS | 493 |
| LAKE TROUT | DO | 1,918 |
| PIKE OR PICKEREL (JACKS OR GRASS PIKE) | DO | 894 |
| SAUGER | DO | 2,043 |
| TROUT (INCLUDING RAINBOW, BROOK, AND BROWN) | DO | 4,248 |
| TULLIBEE | DO | 293 |
| WHITFISH | DO | 14,238 |
| YELLOW PERCH | DO | 686 |
| YELLOW PIKE | DO | 7,276 |
| EELS (FRESH AND SALT-WATER) | DO | 125 |
| OTHER | DO | 7,332 |
| TOTAL FRESH-WATER FISH | DO | 41,070 |
| SALT-WATER: | | |
| COD, HADDOCK, HAKE, POLLOCK, AND CUSK | DO | 1,471 |
| HALIBUT | DO | 21,963 |
| MACKEREL: | | |
| FRESH | DO | 1,551 |
| FROZEN | DO | 886 |
| SALMON | DO | 12,309 |
| SEA HERRING | DO | 1/43,904 |
| SHAD | DO | 76 |
| SMELT | DO | 10,014 |
| STURGEON | DO | 1,352 |
| SWORDFISH: | | |
| FRESH | DO | 3,204 |
| FROZEN | DO | 1,576 |
| TUNA (WHOLE AND OTHER THAN WHOLE): | | |
| ALBACORE | DO | 71,945 |
| OTHER TUNA | DO | 125,182 |
| TOTAL TUNA | DO | 197,127 |
| TUNA LOINS AND DISCS: | | |
| ALBACORE | DO | 3,122 |
| OTHER | DO | 5,225 |
| TOTAL LOINS AND DISCS | DO | 8,348 |
| OTHER (INCLUDING WHITE BASS) | DO | 7,074 |
| TOTAL SALT-WATER FISH | DO | 310,877 |
| FILLETS, STEAKS, ETC.: | | |
| GROUNDFISH AND OCEAN PERCH: | | |
| COD | DO | 32,235 |
| HADDOCK, HAKE, POLLOCK, AND CUSK | DO | 25,590 |
| OCEAN PERCH | DO | 18,665 |
| BLOCKS OR SLABS | DO | 2/116,609 |
| TOTAL GROUNDFISH AND OCEAN PERCH | DO | 195,099 |
| OTHER: | | |
| FLOUNDER | DO | 18,420 |
| HALIBUT AND SALMON | DO | 4,492 |
| SWORDFISH | DO | 17,457 |
| WOLFFISH (SEA CATFISH) | DO | 6,960 |
| OTHER SALT-WATER | DO | 7,450 |
| YELLOW PIKE | DO | 2,548 |
| OTHER FRESH-WATER | DO | 9,840 |
| TOTAL, OTHER THAN GROUNDFISH | DO | 67,167 |
| TOTAL FILLETS, STEAKS, ETC. | DO | 262,266 |
| FISH STICKS AND SIMILAR PRODUCTS | | |
| | DO | 403 |
| TOTAL FISH, FRESH AND FROZEN | DO | 614,616 |
| | | 130,421 |

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

IMPORTS OF FISHERY PRODUCTS ENTERED FOR CONSUMPTION,

1961 - Continued

(VALUE IN THOUSANDS OF DOLLARS)

| ITEM | QUANTITY | VALUE |
|---|--------------|-----------------|
| EDIBLE FISHERY PRODUCTS - CONTINUED | | |
| FRESH OR FROZEN - CONTINUED: | | |
| SHELLFISH, ETC.: | | |
| CRABS: | | |
| FRESH OR FROZEN (INCLUDING PREPARED OR PRESERVED, EXCEPT CANNED) | 1,000 POUNDS | 1,031 278 |
| CRAB MEAT (FRESH COOKED) | DO | 135 133 |
| LOBSTERS: | | |
| COMMON (INCLUDES FRESH-COOKED MEAT) | DO | 21,299 14,571 |
| SPINY | DO | 32,610 34,468 |
| SHRIMP AND PRAWN (MAY INCLUDE SOME DRIED AND CANNED) | DO | 126,268 68,538 |
| CLAMS (IN SHELL OR SHUCKED) | DO | 1,119 269 |
| OYSTERS: | | |
| EXCEPT SEED OYSTERS | DO | 132 62 |
| OTHER (PRINCIPALLY SEED OYSTERS) | DO | 2,773 294 |
| SCALLOPS | DO | 8,652 3,418 |
| FROG LEGS (INCLUDES PREPARED AND PRESERVED) | DO | 2,095 1,421 |
| TURTLES (LIVE ONLY) | DO | 778 74 |
| TOTAL SHELLFISH, ETC., FRESH AND FROZEN | DO | 196,892 123,526 |
| TOTAL FRESH AND FROZEN FISH, SHELLFISH, ETC. | DO | 811,508 253,947 |
| CANNED: | | |
| FISH: | | |
| ANCHOVIES: | | |
| IN OIL | DO | 5,695 2,561 |
| NOT IN OIL | DO | 83 28 |
| SALMON, NOT IN OIL | DO | 7,167 3,545 |
| SARDINES: | | |
| IN OIL | DO | 27,877 10,736 |
| NOT IN OIL | DO | 14,611 1,807 |
| HERRING, NOT IN OIL | DO | 11,091 2,833 |
| TUNA: | | |
| IN OIL: | | |
| ALBACORE | DO | 343 134 |
| OTHER | DO | 88 38 |
| TOTAL IN OIL | DO | 431 172 |
| IN BRINE: | | |
| ALBACORE | DO | 29,116 11,882 |
| OTHER | DO | 29,116 10,121 |
| TOTAL IN BRINE | DO | 58,232 22,003 |
| BONITO AND YELLOWTAIL: | | |
| IN OIL | DO | 6,853 1,752 |
| IN BRINE | DO | 3,503 801 |
| TOTAL BONITO AND YELLOWTAIL | DO | 10,356 2,553 |
| POLLOCK, SMOKED | | |
| DO | DO | 14 6 |
| ANTIPASTO, IN OIL | DO | 335 225 |
| FISH CAKES, BALLS, AND PUDDING | DO | 1,555 357 |
| CAVIAR AND OTHER FISH ROE (MAY INCLUDE SOME NOT CANNED) | DO | 411 910 |
| FISH PASTE AND SAUCE | DO | 153 82 |
| OTHER FISH: | | |
| IN OIL | DO | 625 314 |
| NOT IN OIL | DO | 2,812 641 |
| TOTAL CANNED FISH | DO | 141,648 48,773 |
| SHELLFISH, ETC.: | | |
| ABALONE (MAY INCLUDE FRESH, DRIED, AND CANNED PASTE AND SAUCE) | DO | 4,302 2,241 |
| CLAMS: | | |
| RAZOR | DO | 75 38 |
| OTHER | DO | 1,724 1,080 |
| CHOWDER, JUICE, ETC. | DO | 8 3 |
| CRAB MEAT (INCLUDES PASTE AND SAUCE) | DO | 4,237 5,780 |
| LOBSTER MEAT: | | |
| COMMON | DO | 2,772 4,682 |
| SPINY | DO | 56 97 |
| OYSTERS AND OYSTER JUICE | DO | 7,701 2,434 |
| SHELLFISH PASTE AND SAUCE | DO | 115 66 |
| OTHER SHELLFISH | DO | 3,730 1,158 |
| TOTAL CANNED SHELLFISH | DO | 24,720 17,579 |

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

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IMPORTS OF FISHERY PRODUCTS ENTERED FOR CONSUMPTION,

1961 - Continued

(VALUE IN THOUSANDS OF DOLLARS)

| ITEM | QUANTITY | VALUE |
|--|---------------|-----------|
| EDIBLE FISHERY PRODUCTS - CONTINUED | | |
| TOTAL CANNED FISH, SHELLFISH, ETC. | 1,000 POUNDS | 166,368 |
| CURED: | | |
| DRIED (UNSALTED): | | |
| COD, HADDOCK, HAKE, POLLOCK, AND CUSK. | DO | 728 |
| SHARK FINS | DO | 103 |
| OTHER. | DO | 149 |
| TOTAL DRIED (UNSALTED). | DO | 980 |
| PICKLED OR SALTED: | | |
| COD, HADDOCK, HAKE, POLLOCK, AND CUSK: | | |
| SKINNED OR BONED | DO | 8,452 |
| OTHER. | DO | 36,609 |
| HERRING. | DO | 28,774 |
| MACKEREL | DO | 2,218 |
| SALMON | DO | 16 |
| OTHER. | DO | 431 |
| TOTAL PICKLED OR SALTED | DO | 76,500 |
| SMOKED OR KIPPERED: | | |
| COD, HADDOCK, HAKE, POLLOCK, AND CUSK: | | |
| WHOLE, BEHEADED, EVISCERATED OR BOTH | DO | 166 |
| FILLETS, STEAKS, ETC. | DO | 2,011 |
| HERRING: | | |
| WHOLE OR BEHEADED: | | |
| HARD DRY-SMOKED. | DO | 530 |
| OTHER. | DO | 384 |
| BONED | DO | 886 |
| NOT BONED (EVISCERATED, SPLIT) | DO | 605 |
| SALMON | DO | 25 |
| OTHER. | DO | 19 |
| TOTAL SMOKED OR KIPPERED. | DO | 4,626 |
| TOTAL CURED | DO | 82,106 |
| OTHER FISH AND SHELLFISH, NOT ESPECIALLY PROVIDED FOR. . | DO | 1,680 |
| TOTAL EDIBLE FISHERY PRODUCTS | DO | 1,061,662 |
| NONEDIBLE FISHERY PRODUCTS | | |
| OILS, FISH AND MARINE ANIMAL: | | |
| COD: | | |
| INDUSTRIAL | 1,000 GALLONS | 697 |
| MEDICINAL. | DO | 1,123 |
| HALIBUT LIVER. | DO | 1 |
| HERRING. | DO | 355 |
| SHARKS, INCLUDING GRAYFISH, LIVER. | DO | 1 |
| SOD. | DO | 65 |
| WHALE, SPERM: | | |
| REFINED. | DO | 853 |
| CRUDE. | DO | 6,954 |
| OTHER: | | |
| BODY | DO | 1 |
| LIVER. | DO | 52 |
| TOTAL FISH AND MARINE ANIMAL OIL. | DO | 10,102 |
| MEAL AND SCRAP: | | |
| ANIMAL FEED. | 1,000 TONS | 201 |
| FERTILIZER | DO | 17 |
| TOTAL MEAL AND SCRAP. | - | 218 |
| COD LIVER OIL CAKE AND MEAL. | | |
| FISH SOLUBLES. | 1,000 POUNDS | 410 |
| FISH SOUNDINGS. | 1,000 TONS | 7 |
| FISH LIVERS FOR DRUGS. | 1,000 POUNDS | 17 |
| GLUE | DO | 76 |
| ISINGLASS. | DO | 834 |
| PEARL ESSENCE. | DO | 15 |
| AQUARIUM FISH (INCLUDING GOLDFISH) | - | 43 |
| FISH (OTHER THAN FOR HUMAN CONSUMPTION). | - | - |
| CUTTLEFISH BONE. | 1,000 POUNDS | 296 |

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

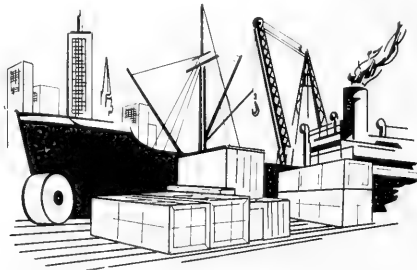
IMPORTS OF FISHERY PRODUCTS ENTERED FOR CONSUMPTION,
1961 - Continued

(VALUE IN THOUSANDS OF DOLLARS)

| ITEM | | QUANTITY | VALUE |
|--|--------------|----------|------------------|
| NONEDIBLE FISHERY PRODUCTS | | | |
| SHELLS AND BUTTONS: | | | |
| SHELLS, UNMANUFACTURED: | | | |
| MOTHER-OF-PEARL AND TROCUS SHELL | 1,000 POUNDS | 1,344 | 630 |
| OTHER | DO | 3,348 | 329 |
| SHELL AND MOTHER-OF-PEARL, ORNAMENTED | - | - | 307 |
| OCEAN AND FRESH-WATER PEARL OR SHELL BUTTONS AND BLANKS | 1,000 GROSS | 567 | 485 |
| PEARLS: | | | |
| CULTURED | - | - | 16,425 |
| NATURAL | - | - | 500 |
| TOTAL PEARLS | - | - | 16,925 |
| AMBERGRIS | 1,000 POUNDS | (3) | 14 |
| SPERMACETI WAX | DO | 236 | 52 |
| AQUATIC LEATHERS: | | | |
| FISH AND SHARK SKINS, RAW OR SALTED | DO | 682 | 67 |
| SEAL SKINS: | | | |
| RAW (NOT FUR SKINS) | DO | 31 | 26 |
| FUR SKINS | 1,000 PIECES | 27 | 162 |
| MALRUS LEATHER | 1,000 POUNDS | 7 | 12 |
| REPTILIAN SKINS (RAW) | 1,000 PIECES | 4,291 | 2,931 |
| REPTILIAN AND SHARK SKIN PRODUCTS | - | - | 6,321 |
| MOSS AND SEAWEEDS | - | - | 400 |
| KELP | 1,000 POUNDS | 37,178 | 215 |
| AGAR-AGAR | DO | 505 | 671 |
| SODIUM ALGINATE | DO | 396 | 278 |
| SPONGES: | | | |
| SHEEPSWOOL | DO | 12 | 62 |
| YELLOW, GRASS OR VELVET | DO | 10 | 44 |
| HARDHEAD, REEF AND OTHER | DO | 76 | 713 |
| TOTAL SPONGES | DO | 98 | 819 ¹ |
| CORAL, UNCUT, UNMANUFACTURED | DO | 366 | 46 |
| TOTAL NONEDIBLE FISHERY PRODUCTS | - | - | 61,301 |
| GRAND TOTAL | - | - | 397,058 |

1/ INCLUDES BUREAU OF CUSTOMS DATA ON IMPORTS OF FRESH HERRING INTO MAINE, WHICH AMOUNTED TO 43,903,745 POUNDS. BUREAU OF THE CENSUS DATA, WHICH DID NOT INCLUDE MOST ENTRIES VALUED AT LESS THAN \$250 AMOUNTED TO 10,339,383 POUNDS. 2/ INCLUDES BLOCKS OF BITS AND PIECES. 3/ LESS THAN 500 UNITS OR DOLLARS.

NOTE:--THE DATA INCLUDE IMPORTS INTO UNITED STATES TERRITORIES AND POSSESSIONS. IMPORTS OF FRESH AND FROZEN "OTHER TUNA" INCLUDE 10,566,000 POUNDS OF SKIPJACK, AND 7,958,000 POUNDS OF YELLOWFIN TUNA LANDED BY UNITED STATES FLAG VESSELS IN SOUTH AMERICA AND TRANSHIPPED TO CALIFORNIA. THIS CATCH HAS NOT BEEN INCLUDED IN CALIFORNIA CATCH STATISTICS.



GENERAL REVIEW

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IMPORTS OF FRESH AND FROZEN TUNA, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| COUNTRY OF ORIGIN | ALBACORE | | OTHER TUNA | | TOTAL | |
|--|----------|--------|------------|--------|----------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| MEXICO | - | - | 3,495 | 255 | 3,495 | 255 |
| TRINIDAD | 658 | 84 | 10,858 | 1,158 | 11,516 | 1,242 |
| ECUADOR | - | - | 6,945 | 648 | 6,945 | 648 |
| PERU | - | - | 6,683 | 418 | 6,683 | 418 |
| TAIWAN | 47 | 6 | 978 | 130 | 1,025 | 136 |
| JAPAN | 50,569 | 8,544 | 66,711 | 9,462 | 117,280 | 18,006 |
| AUSTRALIA | - | - | 1,186 | 157 | 1,186 | 157 |
| BRITISH WESTERN PACIFIC ISLANDS | 9,763 | 1,713 | 6,125 | 966 | 15,908 | 2,699 |
| WESTERN AFRICA | 2,527 | 378 | 6,511 | 787 | 9,038 | 1,165 |
| GHANA | - | - | 4,488 | 421 | 4,488 | 421 |
| BRITISH WEST AFRICA | 8,298 | 1,108 | 10,940 | 1,138 | 19,238 | 2,246 |
| OTHER COUNTRIES | 63 | 10 | 262 | 34 | 325 | 44 |
| TOTAL | 71,945 | 11,843 | 125,182 | 15,594 | 197,127 | 27,437 |

NOTE: --PRINCIPALLY FROZEN.

IMPORTS OF FROZEN COOKED LOINS AND DISCS, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| COUNTRY OF ORIGIN | ALBACORE | | OTHER TUNA | | TOTAL | |
|---|----------|-------|------------|-------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| JAPAN | 3,122 | 1,127 | 5,072 | 1,626 | 8,194 | 2,753 |
| OTHER COUNTRIES (ECUADOR, PERU, NORWAY) | - | - | 154 | 38 | 154 | 38 |
| TOTAL | 3,122 | 1,127 | 5,226 | 1,664 | 8,348 | 2,791 |

IMPORTS OF FILLETS, STEAKS, ETC., 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| COUNTRY OF ORIGIN | QUANTITY | VALUE |
|---|----------|--------|
| GROUND FISH AND OCEAN PERCH (INCLUDING BLOCKS OR SLABS OF PIECES): | | |
| GREENLAND | 3,845 | 775 |
| CANADA | 118,981 | 25,875 |
| ICELAND | 44,431 | 10,217 |
| NORWAY | 9,758 | 2,077 |
| DENMARK | 10,662 | 2,162 |
| WEST GERMANY | 5,323 | 1,079 |
| REPUBLIC OF SOUTH AFRICA | 760 | 103 |
| OTHER COUNTRIES | 1,339 | 307 |
| TOTAL | 195,099 | 42,595 |
| OTHER THAN GROUND FISH: | | |
| GREENLAND | 570 | 143 |
| CANADA | 35,011 | 12,844 |
| MEXICO | 2,574 | 724 |
| ICELAND | 2,734 | 819 |
| NORWAY | 1,555 | 338 |
| WEST GERMANY | 1,187 | 303 |
| JAPAN | 20,796 | 7,694 |
| OTHER COUNTRIES | 2,740 | 728 |
| TOTAL | 67,167 | 23,593 |
| GRAND TOTAL | 262,266 | 66,188 |

GENERAL REVIEW

IMPORTS OF CANNED TUNA IN BRINE, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| COUNTRY OF ORIGIN | ALBACORE | | OTHER TUNA | | TOTAL | |
|---------------------------|----------|--------|------------|--------|----------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| Ecuador | - | - | 3,094 | 874 | 3,094 | 874 |
| PERU | 48 | 12 | 1,516 | 374 | 1,564 | 386 |
| SPAIN | 525 | 209 | 79 | 28 | 604 | 237 |
| PORTUGAL | 635 | 179 | 2,923 | 760 | 3,558 | 939 |
| YUGOSLAVIA | - | - | 369 | 96 | 369 | 96 |
| JAPAN | 27,187 | 11,269 | 19,362 | 7,467 | 46,549 | 18,756 |
| WESTERN AFRICA | 15 | 5 | 401 | 122 | 416 | 127 |
| ANGOLA | 444 | 125 | 1,065 | 295 | 1,509 | 420 |
| OTHER COUNTRIES | 262 | 83 | 307 | 85 | 569 | 168 |
| TOTAL | 29,116 | 11,682 | 29,116 | 10,121 | 58,232 | 22,003 |

NOTE: --TUNA CANNED IN OIL FROM VARIOUS COUNTRIES AMOUNTED TO 431,000 POUNDS, VALUED AT \$172,000.



IMPORTS OF CANNED BONITO AND YELLOWTAIL, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| COUNTRY OF ORIGIN | IN OIL | | IN BRINE | |
|---------------------------|----------|-------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE |
| PERU | 6,512 | 1,628 | 3,439 | 777 |
| OTHER COUNTRIES | 341 | 124 | 64 | 24 |
| TOTAL | 6,853 | 1,752 | 3,503 | 801 |



IMPORTS OF FISH MEAL AND SCRAP, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| COUNTRY OF ORIGIN | QUANTITY | VALUE |
|------------------------------------|----------|--------|
| CANADA | 38 | 3,560 |
| PERU | 151 | 11,162 |
| CHILE | 12 | 891 |
| ANGOLA | 2 | 77 |
| REPUBLIC OF SOUTH AFRICA | 13 | 916 |
| OTHER COUNTRIES | 2 | 134 |
| TOTAL | 218 | 16,740 |

GENERAL REVIEW

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IMPORTS OF FRESH AND FROZEN LOBSTER AND SPINY LOBSTER, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| COUNTRY OF ORIGIN | QUANTITY | VALUE |
|------------------------------------|----------|--------|
| CANADA | 21,299 | 14,571 |
| MEXICO | 1,450 | 1,276 |
| BAHAMAS | 2,091 | 941 |
| CUBA | 1,442 | 1,373 |
| BRAZIL | 3,627 | 3,050 |
| AUSTRALIA | 8,028 | 10,244 |
| NEW ZEALAND | 2,101 | 2,260 |
| REPUBLIC OF SOUTH AFRICA | 9,692 | 11,531 |
| OTHER COUNTRIES | 4,149 | 3,773 |
| TOTAL | 53,909 | 49,039 |

IMPORTS OF SHRIMP, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| COUNTRY OF ORIGIN | QUANTITY | VALUE |
|---------------------------|----------|--------|
| MEXICO | 79,181 | 40,094 |
| EL SALVADOR | 8,093 | 5,505 |
| COSTA RICA | 1,321 | 736 |
| PANAMA | 9,892 | 6,521 |
| COLOMBIA | 1,873 | 1,237 |
| VENEZUELA | 2,469 | 1,115 |
| BRITISH GUIANA | 3,506 | 2,305 |
| EQUADOR | 4,664 | 2,966 |
| IRAN | 1,953 | 549 |
| INDIA | 3,220 | 1,630 |
| PAKISTAN | 1,686 | 734 |
| JAPAN | 1,823 | 1,201 |
| EGYPT | 1,650 | 961 |
| OTHER COUNTRIES | 4,917 | 2,965 |
| TOTAL | 126,268 | 68,538 |

NOTE:--PRINCIPALLY FROZEN.

IMPORTS OF CANNED SARDINES IN OIL, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| COUNTRY OF ORIGIN | QUANTITY | VALUE |
|---------------------------|----------|--------|
| VENEZUELA | 937 | 201 |
| NORWAY | 16,110 | 6,486 |
| DENMARK | 1,655 | 609 |
| SPAIN | 215 | 63 |
| PORTUGAL | 7,537 | 2,902 |
| MOROCCO | 809 | 235 |
| OTHER COUNTRIES | 614 | 240 |
| TOTAL | 27,877 | 10,736 |

IMPORTS OF CANNED SARDINES WITHOUT OIL, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| COUNTRY OF ORIGIN | QUANTITY | VALUE |
|------------------------------------|----------|-------|
| MEXICO | 1,210 | 132 |
| NORWAY | 520 | 121 |
| DENMARK | 187 | 39 |
| NETHERLANDS | 226 | 34 |
| JAPAN | 224 | 42 |
| REPUBLIC OF SOUTH AFRICA | 12,108 | 1,413 |
| OTHER COUNTRIES | 136 | 26 |
| TOTAL | 14,611 | 1,807 |

GENERAL REVIEW

 UNITED STATES IMPORTS OF FISHERY PRODUCTS,
 BY COUNTRY OF ORIGIN, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| COUNTRY | EDIBLE | | NONEDIBLE | TOTAL |
|---|----------------|----------------|---------------|----------------|
| | QUANTITY | VALUE | VALUE | VALUE |
| NORTH AMERICA: | | | | |
| GREENLAND | 4,569 | 1,007 | - | 1,007 |
| CANADA | 377,400 | 102,672 | 5,363 | 108,035 |
| MIQUELON AND ST. PIERRE ISLANDS | 3,714 | 696 | 34 | 932 |
| MEXICO | 97,818 | 45,375 | 191 | 45,766 |
| GUATEMALA | 749 | 409 | 17 | 426 |
| BRITISH HONDURAS | 360 | 284 | 26 | 310 |
| EL SALVADOR | 8,099 | 5,510 | - | 5,510 |
| HONDURAS | 291 | 191 | 39 | 230 |
| NICARAGUA | 1,046 | 422 | 8 | 430 |
| COSTA RICA | 2,044 | 1,370 | 3 | 1,373 |
| REPUBLIC OF PANAMA | 10,066 | 6,678 | 29 | 6,707 |
| CANAL ZONE | - | - | - | 1 |
| BERMUDA | 2 | 1 | - | 1 |
| BAHAMAS | 2,125 | 947 | 13 | 960 |
| CUBA | 1,848 | 1,702 | 96 | 1,798 |
| JAMAICA | 343 | 70 | 20 | 90 |
| HAITI | 76 | 64 | 8 | 72 |
| DOMINICAN REPUBLIC | 4 | 1 | - | 1 |
| LEeward AND WINDWARD ISLANDS | 51 | 5 | - | 5 |
| TRINIDAD AND TABAGO | 11,531 | 1,252 | 31 | 1,283 |
| NETHERLANDS ANTILLES | 10 | 4 | - | 4 |
| TOTAL | 522,172 | 169,063 | 5,678 | 174,941 |
| SOUTH AMERICA: | | | | |
| COLOMBIA | 1,924 | 1,264 | 346 | 1,610 |
| VENEZUELA | 3,439 | 1,326 | 44 | 1,370 |
| BRITISH GUIANA | 3,516 | 2,310 | 45 | 2,355 |
| SURINAM | 465 | 268 | 1 | 269 |
| ECUADOR | 14,911 | 4,619 | - | 4,619 |
| PERU | 18,934 | 3,576 | 13,153 | 16,729 |
| BOLIVIA | - | - | 83 | 83 |
| CHILE | 1,322 | 888 | 1,201 | 2,089 |
| BRAZIL | 3,667 | 3,079 | 1,996 | 5,075 |
| PARAGUAY | - | - | 43 | 43 |
| URUGUAY | - | - | 35 | 35 |
| ARGENTINA | 453 | 106 | 567 | 693 |
| TOTAL | 48,631 | 17,456 | 17,534 | 34,990 |
| EUROPE: | | | | |
| ICELAND | 47,700 | 11,141 | 367 | 11,528 |
| SWEDEN | 1,894 | 536 | 1 | 539 |
| NORWAY | 50,604 | 13,632 | 1,469 | 15,101 |
| DENMARK | 17,416 | 5,234 | 12 | 5,246 |
| UNITED KINGDOM | 4,652 | 1,096 | 1,213 | 2,309 |
| IRELAND | 234 | 45 | 7 | 52 |
| NETHERLANDS | 3,558 | 997 | 739 | 1,736 |
| BELGIUM AND LUXEMBOURG | 173 | 59 | 21 | 80 |
| FRANCE | 3,532 | 1,013 | 1,075 | 2,088 |
| WEST GERMANY | 6,346 | 1,675 | 2,265 | 4,160 |
| AUSTRIA | - | - | 818 | 818 |
| HUNGARY | - | - | (1) | (1) |
| SWITZERLAND | - | - | 134 | 134 |
| FINLAND | 2 | (1) | - | (1) |
| POLAND AND DANZIG | 45 | 10 | - | 10 |
| UNION OF SOVIET SOCIALIST REPUBLIC | 59 | 194 | - | 194 |
| AZORES | 252 | 65 | - | 65 |
| SPAIN | 6,207 | 1,745 | 129 | 1,874 |
| PORTUGAL | 17,152 | 6,268 | 237 | 6,525 |
| ITALY | 631 | 438 | 265 | 723 |
| FREE TERRITORY OF TRIESTE | 41 | 16 | (1) | 16 |
| YUGOSLAVIA | 470 | 128 | (1) | 128 |
| GREECE | 55 | 29 | 611 | 640 |
| RUMANIA | 40 | 32 | - | 32 |
| TURKEY | 31 | 12 | 40 | 52 |
| TOTAL | 163,526 | 44,587 | 9,463 | 54,050 |

SEE FOOTNOTE AT END OF TABLE.

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GENERAL REVIEW

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UNITED STATES IMPORTS OF FISHERY PRODUCTS, BY COUNTRY OF ORIGIN, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| COUNTRY | EDIBLE | | NONEDIBLE | TOTAL |
|--|------------------|----------------|---------------|----------------|
| | QUANTITY | VALUE | VALUE | VALUE |
| ASIA: | | | | |
| LEBANON | - | - | 57 | 57 |
| IRAN | 2,860 | 1,292 | 25 | 1,317 |
| ISRAEL | - | - | (1) | (1) |
| JORDAN | - | - | (1) | - |
| KUWAIT | 194 | 72 | - | 72 |
| SAUDI ARABIA | - | - | (1) | (1) |
| ARABIA PENINSULA STATES | - | - | 8 | 8 |
| ADEN | - | - | 15 | 15 |
| INDIA | 3,833 | 1,947 | 830 | 2,777 |
| PAKISTAN | 1,715 | 748 | 23 | 771 |
| CEYLON | - | - | 2 | 2 |
| BURMA | - | - | 1 | 1 |
| THAILAND | 36 | 20 | 43 | 63 |
| VIETNAM | 115 | 47 | - | 47 |
| FEDERATION OF MALAYA | - | - | 82 | 82 |
| COLONY OF SINGAPORE | (1) | (1) | 77 | 77 |
| REPUBLIC OF INDONESIA | - | - | 38 | 38 |
| REPUBLIC OF THE PHILIPPINES | 206 | 45 | 432 | 477 |
| REPUBLIC OF KOREA | 180 | 109 | 178 | 287 |
| HONG KONG | 953 | 811 | 126 | 937 |
| TAIWAN | 1,068 | 155 | 173 | 328 |
| JAPAN | 226,473 | 64,711 | 23,552 | 88,263 |
| HANSEI AND NANPO ISLANDS | 295 | 50 | 2 | 52 |
| TOTAL | 237,928 | 70,007 | 25,664 | 95,671 |
| AUSTRALIA AND OCEANIA: | | | | |
| AUSTRALIA | 9,273 | 10,434 | 423 | 10,857 |
| NEW GUINEA | - | - | 2 | 2 |
| NEW ZEALAND | 2,154 | 2,292 | 26 | 2,318 |
| BRITISH WESTERN PACIFIC ISLANDS | 16,301 | 2,800 | (1) | 2,800 |
| FRENCH PACIFIC ISLANDS | - | - | 32 | 32 |
| TOTAL | 27,728 | 15,526 | 483 | 16,009 |
| AFRICA: | | | | |
| MOROCCO | 943 | 384 | 408 | 792 |
| ALGERIA | 1 | 2 | 3 | 5 |
| TUNISIA | 32 | 6 | 18 | 24 |
| LIBYA | - | - | 2 | 2 |
| UNITED ARAB REPUBLIC (EGYPT REGION) | 1,681 | 981 | 29 | 1,010 |
| SUDAN | 23 | 6 | 4 | 4 |
| CANARY ISLANDS | - | - | 47 | 47 |
| FRENCH EQUATORIAL AFRICA | 9,454 | 1,292 | 27 | 1,319 |
| WESTERN AFRICA - N.E.C. | 4,488 | 421 | 4 | 425 |
| GHANA | - | - | 266 | 266 |
| NIGERIA | - | - | 1 | 2,247 |
| BRITISH WEST AFRICA | 19,238 | 2,246 | 79 | 499 |
| ANGOLA | 1,509 | 420 | 40 | 43 |
| WESTERN PORTUGUESE AFRICA | 12 | 3 | - | 10 |
| REPUBLIC OF THE CONGO | 40 | 9 | (1) | (1) |
| SOMALILAND | - | - | 1 | 1 |
| ETHIOPIA | - | - | 6 | 6 |
| FRENCH SOMALILAND | - | - | 5 | 5 |
| SEYCHELLES | - | - | 92 | 100 |
| BRITISH EAST AFRICA | 14 | 8 | 53 | 105 |
| MOZAMBIQUE | 57 | 52 | 1,180 | 14,468 |
| REPUBLIC OF SOUTH AFRICA | 24,185 | 13,288 | - | - |
| FEDERATION OF RHODESIA AND NYASALAND | - | - | 13 | 13 |
| TOTAL | 61,677 | 19,118 | 2,279 | 21,397 |
| GRAND TOTAL | 1,061,662 | 335,757 | 61,301 | 397,058 |

1/ LESS THAN 500 POUNDS OR \$500.

GENERAL REVIEW

 UNITED STATES EXPORTS OF FISHERY PRODUCTS.
 BY COUNTRY OF DESTINATION, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| COUNTRY | EDIBLE | | NONEDIBLE | TOTAL |
|---|----------|-------|-----------|--------|
| | QUANTITY | VALUE | VALUE | VALUE |
| NORTH AMERICA: | | | | |
| CANADA | 10,185 | 6,399 | 3,867 | 10,266 |
| MEXICO | 229 | 123 | 336 | 459 |
| GUATEMALA | 511 | 129 | 1 | 130 |
| BRITISH HONDURAS | 102 | 26 | - | 26 |
| EL SALVADOR | 878 | 169 | 20 | 209 |
| HONDURAS | 135 | 30 | (1) | 30 |
| NICARAGUA | 473 | 91 | - | 91 |
| COSTA RICA | 895 | 184 | 1 | 185 |
| REPUBLIC OF PANAMA | 615 | 163 | 84 | 247 |
| CANAL ZONE | 31 | 17 | 1 | 18 |
| BERMUDA | 191 | 131 | 8 | 139 |
| BAHAMAS | 198 | 117 | 7 | 124 |
| CUBA | 4 | - | - | - |
| JAMAICA | 583 | 210 | 15 | 225 |
| HAITI | 9 | 4 | (1) | 4 |
| DOMINICAN REPUBLIC | 19 | 5 | 1 | 6 |
| LEEWARD AND WINDWARD ISLANDS | 16 | 9 | - | 9 |
| BARBADOS | 11 | 6 | (1) | 6 |
| TRINIDAD AND TOBAGO | 63 | 51 | 7 | 58 |
| NETHERLANDS ANTILLES | 266 | 172 | 1 | 173 |
| FRENCH WEST INDIES | 3 | 1 | - | 1 |
| TOTAL | 15,417 | 8,057 | 4,349 | 12,406 |
| SOUTH AMERICA: | | | | |
| COLOMBIA | 17 | 5 | 5 | 10 |
| VENEZUELA | 496 | 333 | 27 | 360 |
| BRITISH GUIANA | 20 | 10 | - | 10 |
| SURINAM | 139 | 33 | 1 | 34 |
| ECUADOR | 443 | 81 | (1) | 81 |
| PERU | 43 | 22 | 3 | 25 |
| BOLIVIA | 30 | 6 | - | 6 |
| CHILE | 51 | 53 | 4 | 57 |
| BRAZIL | 2 | 2 | 45 | 47 |
| PARAGUAY | (1) | 2 | 13 | 13 |
| URUGUAY | 2 | 2 | 1 | 3 |
| ARGENTINA | 49 | 13 | 53 | 66 |
| TOTAL | 1,292 | 560 | 152 | 712 |
| EUROPE: | | | | |
| ICELAND | 27 | 3 | - | 3 |
| SWEDEN | 273 | 298 | 1,367 | 1,665 |
| NORWAY | 16 | 13 | 2,378 | 2,391 |
| DENMARK | 5,117 | 135 | 17 | 152 |
| UNITED KINGDOM | 5,077 | 3,865 | 689 | 4,554 |
| NETHERLANDS | 841 | 617 | 1,768 | 2,385 |
| BELGIUM AND LUXEMBOURG | 389 | 220 | 131 | 351 |
| FRANCE | 772 | 588 | 421 | 1,009 |
| WEST GERMANY | 336 | 258 | 1,297 | 1,555 |
| AUSTRIA | - | - | 19 | 19 |
| CZECHOSLOVAKIA | - | - | 27 | 27 |
| SWITZERLAND | 159 | 125 | 612 | 737 |
| FINLAND | 4 | 3 | - | 3 |
| POLAND AND DANZIG | (1) | 1 | - | 1 |
| UNION OF SOVIET SOCIALIST REPUBLIC | - | - | 1 | 1 |
| SPAIN | - | - | 4 | 4 |
| PORTUGAL | 16 | 7 | 1 | 8 |
| GIBRALTAR | 2 | 1 | - | 1 |
| MALTA, GOZO, AND CYPRESS | 23 | 3 | - | 3 |
| ITALY | 114 | 32 | 370 | 402 |
| YUGOSLAVIA | - | - | 2 | 2 |
| GREECE | 3,139 | 360 | 4 | 364 |
| TURKEY | 2 | 1 | 4 | 5 |
| TOTAL | 11,307 | 6,530 | 9,112 | 15,642 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

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UNITED STATES EXPORTS OF FISHERY PRODUCTS, BY COUNTRY OF DESTINATION, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| COUNTRY | EDIBLE | | NONEDIBLE | TOTAL |
|--|-----------------|---------------|---------------|---------------|
| | <u>QUANTITY</u> | <u>VALUE</u> | <u>VALUE</u> | <u>VALUE</u> |
| ASIA: | | | | |
| LEBANON | 34 | 23 | 1 | 24 |
| IRAQ | 5 | 4 | - | 4 |
| IRAN | 27 | 18 | 10 | 28 |
| ISRAEL | 7 | 4 | 24 | 28 |
| JORDAN | 2 | 2 | 1 | 3 |
| KUWAIT | 19 | 14 | - | 14 |
| SAUDI ARABIA | 46 | 33 | - | 33 |
| ARABIA PENINSULA STATES | 4 | 4 | - | 4 |
| STATE OF BAHREIN | 15 | 11 | - | 11 |
| AFGHANISTAN | 1 | 1 | - | 1 |
| INDIA | 1 | 1 | (1) | 1 |
| PAKISTAN | (1) | (1) | - | (1) |
| CEYLON | 1 | (1) | - | (1) |
| BURMA | 12 | 8 | - | 8 |
| THAILAND | 47 | 17 | 7 | 24 |
| VIET-NAM | 70 | 48 | 1 | 49 |
| CAMBODIA | 5 | 3 | - | 3 |
| FEDERATION OF MALAYA | 516 | 141 | - | 141 |
| SINGAPORE | 331 | 218 | 18 | 236 |
| REPUBLIC OF INDONESIA | 1,994 | 12 | 3 | 15 |
| REPUBLIC OF THE PHILIPPINES | 1,039 | 494 | 87 | 581 |
| HONG KONG | 719 | 356 | 12 | 368 |
| TAIWAN | 2 | 1 | - | 1 |
| JAPAN | 2,406 | 1,701 | 1,283 | 2,984 |
| NANSEI AND NANPO ISLANDS | 44 | 37 | 1 | 38 |
| TOTAL | 7,347 | 3,151 | 1,448 | 4,999 |
| AUSTRALIA AND OCEANIA: | | | | |
| AUSTRALIA | 664 | 428 | 30 | 458 |
| NEW ZEALAND | 974 | 159 | 5 | 164 |
| NEW GUINEA | 334 | 44 | - | 44 |
| BRITISH WESTERN AND PACIFIC ISLANDS | 276 | 40 | - | 40 |
| FRENCH PACIFIC ISLANDS | 360 | 77 | - | 77 |
| TRUST TERRITORY OF THE PACIFIC ISLANDS | 223 | 47 | - | 47 |
| TOTAL | 2,831 | 795 | 35 | 830 |
| AFRICA: | | | | |
| ALGERIA | 9 | 11 | - | 11 |
| LIBYA | 9 | 9 | (1) | 9 |
| UNITED ARAB REPUBLIC (EGYPT REGION) | 14 | 8 | 2 | 10 |
| CANARY ISLANDS | 1 | 1 | - | 1 |
| GHANA | 300 | 53 | 1 | 54 |
| NIGERIA | 32 | 4 | 1 | 5 |
| BRITISH WEST AFRICA | 8 | 4 | - | 4 |
| ANGOLA | 105 | 18 | - | 18 |
| WESTERN AFRICA - N.E.C. | 38 | 8 | - | 8 |
| LIBERIA | 304 | 95 | - | 95 |
| REPUBLIC OF THE CONGO | 782 | 146 | - | 146 |
| SOMALILAND | 1 | (1) | - | (1) |
| ETHIOPIA | 1 | 1 | - | 1 |
| MAURITIUS | (1) | (1) | - | (1) |
| BRITISH EAST AFRICA | 4 | 4 | 1 | 5 |
| MOZAMBIQUE | 5 | 4 | - | 4 |
| UNION OF SOUTH AFRICA | 258 | 73 | 15 | 88 |
| FEDERATION OF RHODESIA AND NYASALAND | 72 | 62 | - | 62 |
| TOTAL | 1,943 | 501 | 20 | 521 |
| GRAND TOTAL | 40,137 | 19,594 | 15,116 | 34,710 |

1/ LESS THAN 500 POUNDS OR \$500.

GENERAL REVIEW

AGE OF FISHING VESSELS

In connection with compiling statistics on the fisheries for 1961, there was assembled, for the first time, information on the age of the United States fishing fleet. The data revealed that a vessel built in 1865 was fishing commercially nearly 100 years later. The vessel, presently named Virginia, operating out of Tampa, Florida, was constructed by a Fish River, Alabama builder about the end of the War between the States.

The figures reveal that the Chesapeake sail dredge vessels are the oldest fishing fleet in the United States. The average sail dredger working in Chesapeake Bay was built in 1911. Eighty percent of these craft were built before World War I.

The menhaden fleet of the Gulf of Mexico was found to be built most recently--the average vessel in this rapidly expanding fishery having been built in 1951. The shrimp fleet of the South Atlantic and Gulf followed closely as the average year built for these vessels was 1949.

Few New England otter trawl vessels have been built in recent years. The oldest of the large trawlers operating in 1961 was constructed in 1928, while the average for the entire fleet is 1940. No large otter trawler, operating in 1961, had been built since 1953. The average medium trawler fishing North Atlantic waters was built in 1941. Small trawlers are even older--the average vessel having been built in 1938.

Forty-four percent of the total United States catch in 1961 was made by 180 menhaden vessels operating off the Atlantic and Gulf coasts. While the fleet operating in the Gulf of Mexico is of most recent construction (the average vessel having been built in 1951), the average menhaden seiner operating in the Chesapeake Bay was built in 1915.

When assembling data on the age of vessels, it was found that the year built for 99 of the 11,964 vessels operated in 1961 could not be determined from Bureau of Customs records or other sources. In most instances, these were former undertonnage craft that had been remeasured and found to be of 5 net tons capacity or greater, vessels obtained by commercial fishermen from the Armed Services or other Government agencies, or salvaged craft that had been redocumented. Frequently, the year built is not known for vessels in these categories.

There follow tabulations, covering vessels operated in 1961, on the year built, by regions for individual fisheries. The data have been presented in considerable detail to provide bench-mark information for similar studies that may be made in the future.

AGE DISTRIBUTION OF UNITED STATES FISHING VESSELS, 1865-1961

| YEAR BUILT | NEW ENGLAND | MIDDLE ATLANTIC | CHESA-PEAKE 1/ | SOUTH ATLANTIC | GULF | PACIFIC | GREAT LAKES | HAWAII | TOTAL, EXCLUSIVE OF DUPLICATION |
|------------|-------------|-----------------|----------------|----------------|--------|---------|-------------|--------|---------------------------------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| 1865. . . | - | - | - | - | 1 | - | - | - | 1 |
| 1872. . . | - | 2 | - | - | - | - | - | - | 2 |
| 1873. . . | - | 1 | - | - | - | - | - | - | 1 |
| 1874. . . | - | - | - | - | 1 | - | - | - | 1 |
| 1875. . . | 1 | 1 | 1 | - | - | - | - | - | 1 |
| 1876. . . | - | 1 | - | - | - | - | - | - | 1 |
| 1877. . . | - | 1 | - | - | - | - | - | - | 2 |
| 1881. . . | - | 1 | 1 | - | - | - | - | - | 3 |
| 1882. . . | - | 1 | 2 | - | - | - | - | - | 2 |
| 1883. . . | - | 2 | 2 | - | - | - | - | - | 4 |
| 1884. . . | - | - | 1 | - | 1 | - | - | - | 2 |
| 1886. . . | 1 | - | 1 | - | - | - | - | - | 2 |
| 1887. . . | - | 3 | - | - | - | - | - | - | 3 |
| 1888. . . | - | 1 | 1 | - | 1 | - | - | - | 3 |
| 1889. . . | - | - | 3 | - | - | - | - | - | 3 |
| 1890. . . | 1 | - | 1 | - | - | - | - | - | 2 |
| 1891. . . | - | - | 3 | - | 2 | 1 | - | - | 6 |
| 1892. . . | - | 1 | 1 | - | 1 | - | - | - | 3 |
| 1893. . . | - | 1 | 2 | - | 1 | - | - | - | 5 |
| 1894. . . | 1 | - | - | 1 | - | 1 | - | - | 3 |

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AGE DISTRIBUTION OF UNITED STATES FISHING VESSELS, 1865-1961 - Continued

| YEAR BUILT | NEW ENGLAND | MIDDLE ATLANTIC | CHESA-PEAKE 1/ | SOUTH ATLANTIC | GULF | PACIFIC | GREAT LAKES | HAWAII | TOTAL, EXCLUSIVE OF DUPLICATION |
|------------|-------------|-----------------|----------------|----------------|--------|---------|-------------|--------|---------------------------------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| 1896. . . | - | 1 | 2 | - | 2 | - | - | - | 5 |
| 1897. . . | - | 2 | 2 | 1 | - | - | - | - | 3 |
| 1898. . . | - | - | 4 | 1 | - | - | - | - | 5 |
| 1899. . . | 1 | 1 | 4 | 1 | 2 | - | - | - | 9 |
| 1900. . . | 3 | 1 | 3 | - | 3 | 2 | - | - | 12 |
| 1901. . . | 2 | 4 | 14 | 2 | 4 | 1 | - | - | 27 |
| 1902. . . | 3 | 10 | 5 | - | 1 | 1 | - | - | 20 |
| 1903. . . | 1 | 4 | 4 | - | 3 | 5 | - | - | 17 |
| 1904. . . | 1 | 3 | 7 | - | 4 | 2 | 1 | - | 18 |
| 1905. . . | - | 5 | 4 | - | 8 | 3 | - | - | 20 |
| 1906. . . | 3 | 6 | 5 | 1 | 4 | 4 | - | - | 23 |
| 1907. . . | 2 | 4 | 6 | - | - | 14 | - | - | 26 |
| 1908. . . | - | 1 | 5 | 1 | - | 12 | - | - | 19 |
| 1909. . . | - | 5 | 6 | - | 4 | 13 | - | - | 28 |
| 1910. . . | 3 | 6 | 5 | - | - | 14 | 1 | - | 29 |
| 1911. . . | - | 6 | 8 | 3 | 1 | 18 | 1 | - | 37 |
| 1912. . . | 1 | 3 | 8 | 2 | 6 | 40 | 1 | - | 61 |
| 1913. . . | 2 | 7 | 8 | 2 | 2 | 48 | 1 | - | 69 |
| 1914. . . | 3 | 2 | 7 | 2 | 2 | 36 | 1 | - | 53 |
| 1915. . . | - | 1 | 6 | 2 | 5 | 57 | 1 | - | 72 |
| 1916. . . | - | 1 | 7 | 1 | 2 | 30 | 1 | - | 42 |
| 1917. . . | 9 | 8 | 7 | 1 | 5 | 92 | - | - | 113 |
| 1918. . . | 4 | 8 | 7 | 2 | 6 | 85 | - | - | 108 |
| 1919. . . | 1 | 3 | 5 | 2 | 2 | 57 | 2 | - | 70 |
| 1920. . . | - | 6 | 8 | 4 | 4 | 80 | 2 | - | 103 |
| 1921. . . | 3 | 4 | 3 | 5 | 3 | 25 | 3 | - | 46 |
| 1922. . . | 4 | 5 | 10 | 3 | 3 | 22 | 2 | - | 48 |
| 1923. . . | 5 | 4 | 16 | 8 | 9 | 22 | 1 | - | 64 |
| 1924. . . | 13 | 11 | 13 | 6 | 21 | 47 | 2 | - | 113 |
| 1925. . . | 17 | 8 | 13 | 8 | 27 | 67 | 5 | - | 140 |
| 1926. . . | 14 | 6 | 9 | 4 | 15 | 85 | 8 | 3 | 143 |
| 1927. . . | 11 | 12 | 17 | 15 | 11 | 105 | 4 | 1 | 171 |
| 1928. . . | 22 | 12 | 10 | 8 | 17 | 139 | 4 | 5 | 214 |
| 1929. . . | 27 | 12 | 13 | 11 | 29 | 96 | 9 | 3 | 195 |
| 1930. . . | 24 | 13 | 14 | 11 | 20 | 70 | 8 | 2 | 155 |
| 1931. . . | 17 | 10 | 12 | 11 | 15 | 43 | 8 | 1 | 114 |
| 1932. . . | 12 | 5 | 10 | 8 | 5 | 24 | 6 | - | 69 |
| 1933. . . | 7 | 4 | 7 | 8 | 7 | 13 | 7 | - | 53 |
| 1934. . . | 8 | 2 | 23 | 12 | 11 | 32 | 11 | - | 98 |
| 1935. . . | 3 | 4 | 16 | 16 | 22 | 72 | 22 | 1 | 155 |
| 1936. . . | 16 | 13 | 26 | 18 | 39 | 59 | 28 | - | 192 |
| 1937. . . | 22 | 10 | 22 | 14 | 56 | 77 | 14 | 1 | 215 |
| 1938. . . | 11 | 11 | 23 | 14 | 50 | 77 | 18 | 4 | 202 |
| 1939. . . | 14 | 6 | 23 | 14 | 30 | 108 | 11 | - | 202 |
| 1940. . . | 14 | 10 | 30 | 8 | 46 | 99 | 15 | 2 | 222 |
| 1941. . . | 32 | 8 | 18 | 16 | 39 | 110 | 8 | 1 | 226 |
| 1942. . . | 22 | 25 | 17 | 27 | 44 | 143 | 6 | - | 266 |
| 1943. . . | 30 | 25 | 24 | 32 | 71 | 122 | 8 | - | 292 |
| 1944. . . | 51 | 18 | 32 | 44 | 85 | 220 | 32 | 1 | 448 |
| 1945. . . | 53 | 30 | 46 | 42 | 101 | 241 | 32 | - | 522 |
| 1946. . . | 45 | 34 | 58 | 86 | 144 | 268 | 44 | 13 | 680 |
| 1947. . . | 35 | 19 | 50 | 70 | 148 | 248 | 28 | 17 | 599 |
| 1948. . . | 17 | 16 | 50 | 56 | 179 | 171 | 37 | 1 | 514 |
| 1949. . . | 16 | 20 | 50 | 68 | 101 | 185 | 14 | 2 | 446 |
| 1950. . . | 10 | 18 | 32 | 28 | 128 | 134 | 16 | 1 | 360 |
| 1951. . . | 15 | 13 | 27 | 41 | 126 | 173 | 13 | - | 386 |
| 1952. . . | 17 | 12 | 37 | 20 | 141 | 178 | 7 | - | 400 |
| 1953. . . | 11 | 17 | 40 | 29 | 251 | 109 | 5 | 3 | 452 |
| 1954. . . | 7 | 18 | 48 | 54 | 252 | 59 | 4 | - | 412 |
| 1955. . . | 7 | 7 | 30 | 46 | 87 | 98 | 6 | 1 | 265 |
| 1956. . . | 11 | 11 | 74 | 62 | 126 | 70 | 3 | - | 323 |
| 1957. . . | 9 | 16 | 70 | 68 | 219 | 80 | 3 | - | 422 |
| 1958. . . | 8 | 6 | 43 | 72 | 264 | 53 | 11 | - | 434 |
| 1959. . . | 12 | 7 | 60 | 44 | 109 | 65 | 8 | - | 290 |
| 1960. . . | 7 | 5 | 30 | 16 | 66 | 51 | 3 | - | 171 |
| 1961. . . | 9 | 1 | 14 | 20 | 40 | 22 | - | - | 105 |
| UNKNOWN | 7 | 3 | 23 | 13 | 12 | 41 | - | - | 99 |
| TOTAL | 738 | 602 | 1,350 | 1,185 | 3,267 | 4,740 | 469 | 65 | 11,944 |

1/ INCLUDES SAILING VESSELS.

NOTE:--THERE ARE NO MOTOR VESSELS ENGAGED IN COMMERCIAL FISHING IN THE MISSISSIPPI RIVER STATES.

SOURCE:--DEPARTMENT OF COMMERCE, BUREAU OF CUSTOMS.

GENERAL REVIEW

NEW ENGLAND FISHING VESSELS, 1961 - BY YEAR BUILT

| YEAR | GEAR OPERATED | | | | | | | OTTER TRAWLS, FISH | POUND NETS |
|-------------------|---------------|--------------|----------|----------|--------|--------|--------|--------------------|------------|
| | STOP SEINES | PURSE SEINES | | | | | | | |
| | | HERRING | MACKEREL | MENHADEN | TUNA | OTHER | | | |
| NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | | |
| 1875. | - | - | - | - | - | - | 1 | - | |
| 1899. | - | - | - | - | - | - | 1 | - | |
| 1900. | - | - | - | - | - | - | 2 | - | |
| 1901. | - | - | - | - | - | - | 1 | - | |
| 1902. | - | - | - | - | - | - | 1 | - | |
| 1903. | - | - | - | - | - | - | 1 | - | |
| 1906. | - | - | - | - | - | - | 1 | - | |
| 1907. | - | - | - | - | - | - | 1 | - | |
| 1910. | - | - | - | - | - | - | 1 | - | |
| 1912. | 1 | - | - | - | - | - | - | - | |
| 1913. | - | - | - | - | - | - | 2 | - | |
| 1914. | - | - | - | - | - | - | 1 | - | |
| 1917. | - | - | - | - | - | 2 | 8 | - | |
| 1918. | - | - | - | - | - | - | 4 | - | |
| 1919. | - | - | - | - | - | - | 1 | - | |
| 1921. | - | - | - | - | - | - | 2 | - | |
| 1922. | 1 | - | - | - | - | - | 3 | - | |
| 1923. | - | - | - | - | - | - | 3 | - | |
| 1924. | - | - | - | - | - | - | 11 | - | |
| 1925. | - | - | - | - | - | - | 14 | - | |
| 1926. | - | - | - | - | - | - | 11 | - | |
| 1927. | 1 | - | - | - | - | - | 7 | - | |
| 1928. | - | - | - | - | - | - | 21 | - | |
| 1929. | 1 | - | - | - | - | - | 21 | - | |
| 1930. | - | - | - | - | - | 2 | 15 | - | |
| 1931. | 2 | - | - | - | - | - | 12 | - | |
| 1932. | - | - | - | - | - | - | 6 | - | |
| 1933. | - | - | - | - | - | - | 4 | - | |
| 1934. | 1 | - | - | - | - | - | 5 | - | |
| 1935. | 1 | - | - | - | - | - | 1 | - | |
| 1936. | 2 | - | - | - | - | - | 12 | - | |
| 1937. | 1 | - | - | - | - | - | 15 | - | |
| 1938. | - | - | - | - | - | - | 5 | 1 | |
| 1939. | - | - | - | - | - | - | 6 | - | |
| 1940. | - | - | - | - | - | - | 10 | - | |
| 1941. | - | - | - | - | - | - | 25 | - | |
| 1942. | 1 | - | - | - | - | - | 20 | - | |
| 1943. | 1 | - | - | 2 | - | - | 26 | - | |
| 1944. | - | - | - | - | - | - | 41 | - | |
| 1945. | 1 | - | - | - | - | - | 41 | - | |
| 1946. | - | - | - | 1 | - | - | 40 | - | |
| 1947. | 1 | - | - | 1 | - | - | 29 | - | |
| 1948. | - | - | - | - | - | - | 13 | - | |
| 1949. | 2 | 1 | - | - | - | - | 11 | - | |
| 1950. | 1 | - | - | - | - | - | 5 | - | |
| 1951. | - | - | - | 1 | - | - | 13 | - | |
| 1952. | - | - | - | 1 | - | - | 13 | - | |
| 1953. | - | - | - | - | - | - | 5 | - | |
| 1954. | - | - | 1 | - | 1 | 1 | 5 | - | |
| 1955. | - | - | - | - | - | - | 5 | - | |
| 1956. | - | - | - | - | - | - | 10 | - | |
| 1957. | - | - | - | - | - | - | 6 | - | |
| 1958. | 1 | - | - | - | - | - | 3 | 1 | |
| 1959. | - | - | - | 1 | - | - | 5 | - | |
| 1960. | - | - | - | - | - | - | 1 | - | |
| 1961. | - | - | - | - | 1 | - | 4 | - | |
| UNKNOWN | - | - | - | - | - | - | 6 | - | |
| TOTAL | 20 | 1 | 1 | 7 | 2 | 5 | 537 | 2 | |

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

63

NEW ENGLAND FISHING VESSELS, 1961 BY YEAR BUILT - Continued

| YEAR | GEAR OPERATED | | | | | | | |
|-----------------|----------------|----------------|---------------|----------------------|---------------|---------------|---------------|------------------------|
| | FLOATING TRAPS | POTS AND TRAPS | | GILL NETS | | LINES | | |
| | | LOBSTER | OTHER | ANCHOR, SET OR STAKE | DRIFT | HAND | TROLL | LONG OR SET WITH HOOKS |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| 1894. | 1 | - | - | - | - | - | - | - |
| 1900. | - | 1 | - | - | - | - | - | - |
| 1901. | 1 | - | - | - | - | - | - | - |
| 1910. | - | 1 | - | - | - | - | - | - |
| 1917. | - | 1 | - | - | - | - | - | - |
| 1921. | - | 1 | 1 | - | - | - | - | - |
| 1925. | 1 | - | - | 2 | - | - | - | - |
| 1926. | 2 | - | - | 1 | - | - | - | - |
| 1927. | - | - | - | 2 | - | - | - | 1 |
| 1928. | - | - | - | - | - | - | - | 1 |
| 1929. | - | 2 | - | 1 | - | - | - | - |
| 1930. | - | 2 | - | 2 | - | - | - | 1 |
| 1931. | - | 2 | - | - | - | 2 | - | - |
| 1932. | - | 5 | - | - | - | - | - | - |
| 1933. | - | 2 | - | 1 | - | - | - | 1 |
| 1934. | - | 2 | - | - | - | - | - | - |
| 1935. | - | 1 | - | - | - | - | - | 1 |
| 1936. | - | 2 | - | 1 | - | - | - | - |
| 1937. | - | 1 | - | - | 1 | 1 | - | 1 |
| 1938. | - | 1 | - | 1 | - | - | - | - |
| 1939. | 1 | 3 | - | 1 | - | - | - | - |
| 1940. | - | 2 | - | - | - | 2 | - | - |
| 1941. | - | 1 | - | - | - | 1 | - | - |
| 1942. | - | - | - | - | - | 1 | - | - |
| 1945. | - | 1 | - | - | - | - | - | 1 |
| 1946. | - | 3 | - | 1 | 2 | - | - | - |
| 1947. | - | 1 | - | - | - | - | - | - |
| 1948. | - | - | - | - | - | 1 | - | - |
| 1949. | 1 | 1 | 1 | - | - | - | - | - |
| 1950. | - | 1 | - | - | - | 1 | 1 | - |
| 1951. | - | - | - | - | - | - | - | 1 |
| 1952. | - | 2 | - | - | - | - | - | - |
| 1953. | - | 1 | - | - | - | - | 2 | - |
| 1954. | - | - | - | - | - | - | - | 1 |
| 1955. | - | - | - | - | - | - | - | 1 |
| 1957. | - | - | - | - | 1 | 1 | - | 1 |
| 1958. | - | 1 | - | - | - | - | 1 | - |
| 1959. | - | 1 | - | - | - | 3 | - | 1 |
| 1960. | - | 2 | - | - | - | 1 | - | - |
| 1961. | - | - | - | - | - | 2 | 1 | - |
| UNKNOWN | - | - | - | - | - | 1 | - | - |
| TOTAL | 7 | 43 | 2 | 12 | 4 | 18 | 5 | 12 |

| YEAR | GEAR OPERATED | | | | | | TOTAL, EXCLUSIVE OF DUPLICATION |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------------------------|
| | HARPOONS | | DREDGES | | | | |
| | SWORD-FISH | OTHER | CLAM | MUSSEL | OYSTER | SCALLOP | |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| 1875. | - | - | - | - | - | - | 1 |
| 1886. | - | - | - | - | 1 | - | 1 |
| 1890. | - | - | - | - | - | 1 | 1 |
| 1894. | - | - | - | - | - | - | 1 |
| 1899. | - | - | - | - | - | - | 1 |

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

NEW ENGLAND FISHING VESSELS, 1961
BY YEAR BUILT - Continued

| YEAR | GEAR OPERATED | | | | | | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|-------------------|---------------|--------|---------|--------|--------|---------|--|
| | HARPOONS | | DREDGES | | | | |
| | WORD- FISH | OTHER | CLAM | MUSSEL | OYSTER | SCALLOP | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| 1900 | - | - | 1 | - | - | - | 3 |
| 1901 | - | - | - | - | - | - | 2 |
| 1902 | - | - | 1 | - | 2 | - | 3 |
| 1903 | - | - | - | - | - | - | 1 |
| 1904 | - | - | 1 | - | - | - | 1 |
| 1906 | - | - | 2 | - | - | - | 3 |
| 1907 | - | - | - | - | 1 | - | 2 |
| 1910 | - | - | 1 | - | 1 | - | 3 |
| 1912 | - | - | - | - | - | - | 1 |
| 1913 | - | - | - | - | - | - | 2 |
| 1914 | - | - | 1 | - | 1 | - | 3 |
| 1917 | 1 | - | - | - | - | - | 9 |
| 1918 | 1 | - | - | - | - | 1 | 4 |
| 1919 | 1 | - | - | - | - | - | 1 |
| 1921 | 1 | - | 1 | - | - | - | 3 |
| 1922 | 1 | - | - | - | - | - | 4 |
| 1923 | - | - | 2 | - | - | - | 5 |
| 1924 | - | - | 1 | - | 1 | - | 13 |
| 1925 | - | - | - | - | - | - | 17 |
| 1926 | - | - | - | - | - | - | 14 |
| 1927 | - | - | - | - | - | 1 | 11 |
| 1928 | 1 | - | - | - | - | 1 | 22 |
| 1929 | 1 | - | - | - | - | 2 | 27 |
| 1930 | - | - | - | - | - | 3 | 24 |
| 1931 | - | - | - | - | - | - | 17 |
| 1932 | 1 | - | - | - | 1 | - | 12 |
| 1933 | 1 | - | - | - | - | 1 | 7 |
| 1934 | - | - | - | - | - | - | 8 |
| 1935 | - | - | - | - | - | - | 3 |
| 1936 | - | - | - | - | - | 3 | 16 |
| 1937 | - | - | 1 | - | - | 2 | 22 |
| 1938 | - | - | 1 | - | - | 2 | 11 |
| 1939 | 2 | - | 1 | - | - | 4 | 14 |
| 1940 | - | - | - | - | - | 3 | 14 |
| 1941 | - | - | - | - | - | 8 | 32 |
| 1942 | - | - | - | - | - | - | 22 |
| 1943 | 2 | - | - | - | - | 4 | 30 |
| 1944 | 2 | - | - | - | - | 11 | 51 |
| 1945 | 4 | - | - | - | - | 11 | 53 |
| 1946 | 3 | - | - | - | 1 | 1 | 45 |
| 1947 | 3 | - | - | - | 1 | 4 | 35 |
| 1948 | 1 | - | 1 | - | 1 | 1 | 17 |
| 1949 | 2 | - | - | - | - | - | 16 |
| 1950 | - | - | - | - | - | 2 | 10 |
| 1951 | - | - | 1 | - | - | 2 | 15 |
| 1952 | - | - | - | - | - | 2 | 17 |
| 1953 | - | 1 | - | - | - | 2 | 11 |
| 1954 | - | - | - | - | - | - | 7 |
| 1955 | 2 | - | - | - | - | 1 | 7 |
| 1956 | - | - | - | - | - | 2 | 11 |
| 1957 | - | - | - | - | - | 2 | 9 |
| 1958 | 1 | - | - | - | - | 1 | 8 |
| 1959 | 1 | - | - | 1 | - | 2 | 12 |
| 1960 | 1 | - | - | - | - | 3 | 7 |
| 1961 | - | 1 | - | - | - | 1 | 9 |
| UNKNOWN | 1 | - | - | - | - | - | 7 |
| TOTAL | 32 | 2 | 17 | 1 | 11 | 84 | 738 |

NOTE:--THE NEW ENGLAND STATES INCLUDE MAINE, NEW HAMPSHIRE, MASSACHUSETTS, RHODE ISLAND, AND CONNECTICUT.

GENERAL REVIEW

85

NEW ENGLAND OTTER TRAWL FLEET, 1961 - BY YEAR BUILT

| | SIZE OF VESSELS ^{1/} | | | TOTAL |
|-------------------|-------------------------------|---------------|---------------|-------|
| | SMALL | MEDIUM | LARGE | |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | |
| 1875. | - | 1 | - | 1 |
| 1899. | - | 1 | - | 1 |
| 1900. | 1 | 1 | - | 2 |
| 1901. | 1 | - | - | 1 |
| 1902. | 1 | - | - | 1 |
| 1903. | 1 | - | - | 1 |
| 1906. | 1 | - | - | 1 |
| 1907. | 1 | - | - | 1 |
| 1910. | 1 | - | - | 1 |
| 1913. | 2 | - | - | 2 |
| 1914. | 1 | - | - | 1 |
| 1917. | 2 | 6 | - | 8 |
| 1918. | 3 | 1 | - | 4 |
| 1919. | 1 | - | - | 1 |
| 1921. | 2 | - | - | 2 |
| 1922. | 2 | 1 | - | 3 |
| 1923. | 3 | - | - | 3 |
| 1924. | 11 | - | - | 11 |
| 1925. | 12 | 2 | - | 14 |
| 1926. | 10 | 1 | - | 11 |
| 1927. | 5 | 2 | - | 7 |
| 1928. | 13 | 4 | 4 | 21 |
| 1929. | 10 | 7 | 4 | 21 |
| 1930. | 6 | 8 | 1 | 15 |
| 1931. | 4 | 6 | - | 12 |
| 1932. | 4 | 2 | - | 6 |
| 1933. | 4 | - | - | 4 |
| 1934. | 2 | - | 3 | 5 |
| 1935. | 1 | - | - | 1 |
| 1936. | 4 | 5 | 3 | 12 |
| 1937. | 6 | 3 | 6 | 15 |
| 1938. | 1 | 2 | 2 | 5 |
| 1939. | 3 | 3 | - | 6 |
| 1940. | 5 | 4 | 1 | 10 |
| 1941. | 4 | 18 | 3 | 25 |
| 1942. | 5 | 12 | 3 | 20 |
| 1943. | 16 | 8 | 2 | 26 |
| 1944. | 19 | 18 | 4 | 41 |
| 1945. | 20 | 17 | 4 | 41 |
| 1946. | 23 | 15 | 2 | 40 |
| 1947. | 17 | 7 | 5 | 29 |
| 1948. | 13 | - | - | 13 |
| 1949. | 7 | 3 | 1 | 11 |
| 1950. | 5 | - | - | 5 |
| 1951. | 8 | 4 | 1 | 13 |
| 1952. | 5 | 4 | 4 | 13 |
| 1953. | 4 | 1 | 1 | 5 |
| 1954. | 1 | 4 | - | 5 |
| 1955. | 3 | 2 | - | 5 |
| 1956. | 6 | 4 | - | 10 |
| 1957. | 2 | 4 | - | 6 |
| 1958. | 2 | 1 | - | 3 |
| 1959. | 1 | 4 | - | 5 |
| 1960. | - | 1 | - | 1 |
| 1961. | - | 4 | - | 4 |
| UNKNOWN | 6 | - | - | 6 |
| TOTAL | 293 | 190 | 54 | 537 |

^{1/} THE BUREAU OF COMMERCIAL FISHERIES DESIGNATES A SMALL NEW ENGLAND TRAWLER AS ONE RANGING FROM 5 GROSS TONS TO 50 GROSS TONS; MEDIUM TRAWLERS ARE THOSE FROM 51 TO 150 GROSS TONS; AND LARGE--151 GROSS TONS AND OVER.

GENERAL REVIEW

MIDDLE ATLANTIC FISHING VESSELS, 1961 - BY YEAR BUILT

| YEAR | GEAR OPERATED | | | | | | |
|---------|---------------|--------------|--------|--------------|---------|------------|----------------|
| | HAUL SEINES | PURSE SEINES | | OTTER TRAWLS | | POUND NETS | POTS AND TRAPS |
| | | MENHADEN | OTHER | FISH | LOBSTER | | CRAB |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| 1875 | - | - | - | 1 | - | - | - |
| 1877 | - | 1 | - | - | - | - | - |
| 1887 | - | - | - | - | - | - | - |
| 1888 | - | - | - | 1 | - | - | - |
| 1892 | - | - | - | - | - | - | 1 |
| 1897 | - | 1 | - | - | - | - | - |
| 1902 | - | 1 | 1 | 4 | - | - | - |
| 1903 | - | 1 | - | - | - | 1 | - |
| 1904 | - | - | - | 1 | - | - | - |
| 1905 | - | - | - | 1 | - | - | - |
| 1907 | - | - | 1 | 1 | - | - | - |
| 1909 | - | - | - | 2 | - | - | - |
| 1910 | - | 1 | - | 1 | - | - | - |
| 1911 | - | 1 | 2 | 3 | - | - | - |
| 1912 | - | 1 | - | 2 | - | - | 1 |
| 1913 | - | 1 | - | 2 | - | 1 | - |
| 1914 | - | - | - | 2 | - | - | - |
| 1915 | - | - | - | 1 | - | - | - |
| 1917 | - | - | - | 7 | 1 | - | - |
| 1918 | - | 2 | - | 4 | 1 | 1 | - |
| 1919 | - | 1 | - | 2 | - | - | - |
| 1920 | - | 1 | 1 | 3 | 1 | 1 | - |
| 1921 | - | - | 1 | 3 | - | - | - |
| 1922 | - | 2 | - | 3 | - | - | - |
| 1923 | - | 1 | - | 1 | - | - | - |
| 1924 | - | - | 1 | 4 | 2 | - | - |
| 1925 | - | - | - | 4 | 2 | - | - |
| 1926 | - | - | - | 2 | - | - | - |
| 1927 | - | 1 | - | 7 | - | - | - |
| 1928 | - | - | - | 6 | 1 | - | - |
| 1929 | - | - | - | 5 | 1 | - | 1 |
| 1930 | - | - | - | 12 | 1 | - | - |
| 1931 | - | - | 1 | 7 | 1 | - | - |
| 1932 | - | - | - | 2 | - | - | 2 |
| 1933 | 1 | - | - | 1 | - | - | - |
| 1934 | - | - | - | 1 | - | - | - |
| 1935 | - | - | - | - | 1 | - | - |
| 1936 | - | 1 | 1 | 8 | 1 | 1 | - |
| 1937 | - | - | - | 5 | - | - | - |
| 1938 | - | 1 | - | 8 | 1 | - | - |
| 1939 | - | - | - | 2 | - | 1 | - |
| 1940 | - | - | - | 2 | - | 1 | - |
| 1941 | - | - | - | 7 | - | - | - |
| 1942 | - | 2 | 1 | 15 | 2 | - | - |
| 1943 | - | 3 | - | 13 | - | - | - |
| 1944 | - | 1 | - | 12 | 2 | 1 | - |
| 1945 | - | 1 | - | 21 | 3 | - | - |
| 1946 | - | - | 1 | 25 | 3 | 2 | - |
| 1947 | - | - | - | 9 | 2 | 2 | - |
| 1948 | - | 4 | - | 5 | - | 1 | - |
| 1949 | - | 10 | 1 | 2 | - | - | - |
| 1950 | - | 4 | 2 | 8 | 1 | 2 | - |
| 1951 | - | 4 | - | 7 | 2 | 2 | - |
| 1952 | - | - | 1 | 5 | - | 1 | - |
| 1953 | - | 2 | - | 5 | 2 | - | 1 |
| 1954 | - | 2 | - | 9 | - | - | - |
| 1955 | - | 3 | - | 4 | - | - | - |
| 1956 | - | 2 | - | 4 | 1 | - | - |
| 1957 | - | - | 1 | 8 | 5 | 1 | - |
| 1958 | - | 1 | - | 2 | - | 1 | - |
| 1959 | - | - | - | 5 | 2 | - | - |
| 1960 | - | 1 | - | 2 | 1 | - | - |
| UNKNOWN | - | - | - | 2 | - | - | 1 |
| TOTAL | 1 | 58 | 17 | 292 | 40 | 21 | 6 |

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

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MIDDLE ATLANTIC FISHING VESSELS, 1961 BY YEAR BUILT - Continued

| YEAR | GEAR OPERATED - CONTINUED | | | | | | |
|-------------------|---------------------------|---------|-----------------------------|--------|----------------|--------|--------|
| | POTS AND TRAPS-CONTINUED | | GILL NETS | | | LINES | |
| | FISH | LOBSTER | ANCHOR, SET, OR STAKE | DRIFT | RUN- AROUND | HAND | TROLL |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| 1902. | 1 | - | - | - | - | - | - |
| 1909. | - | 1 | - | - | - | - | - |
| 1915. | - | - | - | 1 | - | - | - |
| 1924. | - | - | - | 1 | - | - | - |
| 1926. | 1 | 1 | - | 2 | - | 1 | - |
| 1928. | - | 1 | - | - | - | - | - |
| 1929. | - | - | 1 | 3 | 1 | - | - |
| 1930. | - | - | - | 1 | - | - | 1 |
| 1933. | - | - | - | - | 1 | - | - |
| 1934. | - | - | - | 1 | - | - | 1 |
| 1935. | - | - | - | 1 | - | - | - |
| 1936. | - | - | - | 1 | - | 1 | 1 |
| 1937. | - | 1 | - | - | 1 | - | - |
| 1938. | - | - | - | - | - | - | 1 |
| 1939. | - | 1 | - | - | - | - | - |
| 1940. | - | 1 | 1 | 1 | 2 | - | 1 |
| 1941. | - | 1 | - | - | - | - | - |
| 1942. | - | - | - | 1 | - | 1 | - |
| 1943. | 1 | - | - | - | - | - | 2 |
| 1944. | - | - | 1 | 1 | - | - | - |
| 1945. | 1 | 1 | - | 1 | - | - | - |
| 1946. | - | - | - | - | - | 1 | - |
| 1947. | 2 | 1 | - | 2 | 1 | 2 | - |
| 1948. | - | - | - | 4 | - | 1 | 4 |
| 1949. | - | - | - | 1 | - | - | - |
| 1950. | - | - | - | 1 | - | - | - |
| 1952. | 1 | 1 | - | 2 | - | - | - |
| 1953. | 2 | 1 | - | 2 | 1 | 1 | - |
| 1954. | 1 | 2 | - | 3 | 1 | - | 3 |
| 1956. | 1 | 1 | - | - | - | - | 1 |
| 1957. | - | 1 | - | 2 | - | 1 | 1 |
| 1961. | - | 1 | - | - | - | - | - |
| UNKNOWN | - | - | - | 1 | - | - | - |
| TOTAL | 11 | 16 | 3 | 34 | 8 | 9 | 16 |

| YEAR | GEAR OPERATED - CONTINUED | | | | | | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|---------------|------------------------------|----------|---------|--------|--------|---------|--|
| | LINES- CONTINUED | HARPOONS | DREDGES | | | | |
| | LONG OR SET WITH HOOKS | | CLAM | CRAB | OYSTER | SCALLOP | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| 1872. | - | - | 1 | 1 | - | - | 2 |
| 1873. | - | - | 1 | - | - | - | 1 |
| 1875. | - | - | - | - | - | - | 1 |
| 1876. | - | - | 1 | - | - | - | 1 |
| 1877. | - | - | - | - | - | - | 1 |
| 1881. | - | - | - | 1 | - | - | 1 |
| 1882. | - | - | - | - | 1 | - | 1 |
| 1883. | - | - | 1 | 1 | - | - | 2 |
| 1887. | - | - | 2 | 1 | - | - | 3 |
| 1888. | - | - | - | - | - | - | 1 |
| 1892. | - | - | - | - | - | - | 1 |
| 1893. | - | - | 1 | - | - | - | 1 |
| 1896. | - | - | - | 1 | - | - | 1 |
| 1897. | - | - | 1 | - | - | - | 2 |
| 1899. | - | - | - | - | 1 | - | 1 |
| 1900. | - | - | - | - | 1 | - | 1 |
| 1901. | - | - | 1 | - | 3 | - | 4 |
| 1902. | 1 | - | 3 | - | 1 | - | 10 |
| 1903. | - | - | 1 | - | 1 | - | 4 |
| 1904. | - | - | 2 | - | - | - | 3 |

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

MIDDLE ATLANTIC FISHING VESSELS, 1961
BY YEAR BUILT - Continued

| YEAR | GEAR OPERATED | | | | | | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|---------------------------------|---------------------|----------|---------|--------|--------|---------|--|
| | LINES- CONTINUED | HARPOONS | DREDGES | | | | |
| | | | CLAM | CRAB | OYSTER | SCALLOP | |
| LONG OR SET WITH HOOKS | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| 1905. | - | - | 5 | - | 1 | - | 5 |
| 1906. | - | - | 4 | - | 2 | 2 | 6 |
| 1907. | - | - | 1 | - | 1 | - | 4 |
| 1908. | - | - | - | - | 1 | - | 1 |
| 1909. | 1 | - | - | - | 3 | - | 5 |
| 1910. | - | - | 1 | - | 3 | - | 6 |
| 1911. | - | - | - | 1 | 1 | - | 3 |
| 1912. | 1 | - | - | - | - | - | 7 |
| 1913. | - | - | 2 | - | 2 | - | 7 |
| 1914. | - | - | - | - | - | - | 2 |
| 1915. | 1 | - | - | - | - | - | 1 |
| 1916. | - | - | 1 | - | - | - | 1 |
| 1917. | - | - | - | - | 1 | 1 | 8 |
| 1918. | 1 | - | - | - | - | 2 | 8 |
| 1919. | - | - | - | - | - | - | 3 |
| 1920. | - | - | 1 | - | - | - | 6 |
| 1921. | 1 | - | - | - | - | - | 4 |
| 1922. | - | - | - | - | - | - | 5 |
| 1923. | - | - | - | 1 | 2 | - | 4 |
| 1924. | - | - | 1 | 1 | 4 | 1 | 11 |
| 1925. | - | - | 2 | - | 2 | - | 8 |
| 1926. | 1 | - | - | - | 1 | - | 6 |
| 1927. | 1 | - | 2 | - | 1 | - | 12 |
| 1928. | - | - | 4 | - | 1 | 1 | 12 |
| 1929. | 1 | 1 | 3 | - | 2 | - | 12 |
| 1930. | 2 | 1 | - | - | - | - | 13 |
| 1931. | - | - | - | - | - | - | 10 |
| 1932. | - | - | 3 | - | - | - | 5 |
| 1933. | 1 | - | - | - | - | - | 4 |
| 1934. | 1 | - | - | - | - | - | 2 |
| 1935. | 1 | 1 | - | - | - | - | 4 |
| 1936. | 3 | - | - | - | 1 | - | 13 |
| 1937. | 2 | - | 1 | - | 1 | 1 | 10 |
| 1938. | 2 | - | - | - | - | 1 | 11 |
| 1939. | - | - | - | 1 | - | 2 | 6 |
| 1940. | 2 | - | 1 | - | 1 | 1 | 10 |
| 1941. | 2 | - | - | 1 | - | 1 | 8 |
| 1942. | 1 | - | 5 | 1 | - | 3 | 25 |
| 1943. | 1 | - | 3 | - | - | 4 | 25 |
| 1944. | - | - | 1 | - | - | 1 | 15 |
| 1945. | 3 | 1 | 7 | - | - | - | 30 |
| 1946. | 3 | 2 | 3 | 1 | 1 | 1 | 34 |
| 1947. | 4 | - | 2 | - | 2 | - | 19 |
| 1948. | 2 | - | 4 | - | 3 | - | 16 |
| 1949. | 1 | - | 1 | 1 | - | - | 20 |
| 1950. | 1 | - | 5 | 1 | - | - | 18 |
| 1951. | 1 | - | - | 1 | - | 1 | 13 |
| 1952. | 3 | - | 3 | - | 1 | - | 12 |
| 1953. | 4 | - | 3 | 1 | - | - | 17 |
| 1954. | 3 | 1 | 1 | - | - | 1 | 18 |
| 1955. | 2 | - | - | 2 | - | - | 7 |
| 1956. | 4 | - | 2 | 2 | - | - | 11 |
| 1957. | 2 | - | 1 | - | - | 1 | 16 |
| 1958. | 1 | - | - | 1 | - | - | 6 |
| 1959. | 2 | - | - | - | - | - | 7 |
| 1960. | - | 1 | 2 | - | - | - | 5 |
| 1961. | - | - | - | - | - | - | 1 |
| UNKNOWN | 1 | - | - | - | - | - | 3 |
| TOTAL | 62 | 8 | 89 | 20 | 47 | 24 | 602 |

NOTE:--THE MIDDLE ATLANTIC STATES INCLUDE NEW YORK, NEW JERSEY, AND DELAWARE.

GENERAL REVIEW

89

CHESAPEAKE FISHING VESSELS, 1961 - BY YEAR BUILT

| YEAR | GEAR OPERATED | | | | | | | |
|---------|----------------|------------------------------|--------------------------|---------------|-----------------------------|----------------|-----|------|
| | HAUL SEINES | PURSE SEINES, MENHADEN | OTTER TRAWLS, FISH | POUND NETS | FYKE AND HOOP NETS | POTS AND TRAPS | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | CRAB | EEL | FISH |
| 1875. | - | 1 | 1 | - | - | - | - | - |
| 1877. | - | 1 | - | - | - | - | - | - |
| 1892. | - | 1 | - | - | - | - | - | - |
| 1893. | - | 1 | - | - | - | - | - | - |
| 1897. | - | 1 | - | - | - | - | - | - |
| 1898. | - | 1 | 1 | - | - | - | - | - |
| 1899. | - | 1 | - | - | - | - | - | - |
| 1900. | - | 1 | - | - | - | - | - | - |
| 1901. | - | 2 | - | - | - | - | - | - |
| 1902. | - | 2 | - | - | - | - | - | - |
| 1904. | - | 1 | - | - | - | - | - | - |
| 1906. | - | - | 1 | - | - | - | - | - |
| 1907. | - | - | 1 | - | - | - | - | - |
| 1909. | - | 1 | - | - | - | - | - | - |
| 1910. | 1 | 2 | - | - | - | - | - | - |
| 1912. | - | - | 1 | - | - | - | - | - |
| 1913. | - | - | 2 | - | - | - | - | - |
| 1914. | - | - | 2 | - | - | - | - | - |
| 1916. | - | - | 2 | - | - | - | - | - |
| 1917. | - | - | 3 | - | - | - | - | - |
| 1918. | - | - | 2 | - | - | 1 | - | - |
| 1919. | - | 2 | 1 | - | - | - | - | - |
| 1920. | - | - | 1 | - | - | 1 | - | - |
| 1922. | - | - | 2 | - | - | 1 | - | - |
| 1923. | - | 2 | - | - | - | - | - | - |
| 1924. | - | - | 1 | - | - | 1 | - | - |
| 1925. | - | - | 2 | - | - | - | - | - |
| 1926. | - | - | 2 | - | - | 2 | - | - |
| 1927. | 1 | - | 3 | 1 | 2 | 2 | - | - |
| 1928. | 1 | - | 2 | - | - | - | - | - |
| 1929. | 1 | - | 2 | - | - | 1 | - | - |
| 1930. | - | 2 | 1 | - | - | - | - | - |
| 1931. | - | - | 4 | - | - | 2 | - | - |
| 1932. | - | - | 4 | - | - | 3 | - | - |
| 1933. | - | - | 1 | 1 | - | 1 | - | - |
| 1934. | - | - | 2 | 1 | - | 5 | - | - |
| 1935. | 1 | - | 2 | - | - | 4 | - | - |
| 1936. | 2 | - | 2 | - | - | 4 | - | - |
| 1937. | 1 | - | 1 | - | - | 5 | - | - |
| 1938. | 1 | - | 2 | 2 | 2 | 7 | 2 | - |
| 1939. | 1 | - | 1 | 1 | - | 3 | - | - |
| 1940. | 2 | 1 | 2 | 1 | - | 5 | - | 1 |
| 1941. | 1 | - | 2 | - | - | 4 | - | - |
| 1942. | 1 | 1 | 5 | 1 | - | 3 | - | - |
| 1943. | 1 | 2 | 4 | - | - | 3 | - | - |
| 1944. | 1 | 1 | 5 | - | - | 4 | - | - |
| 1945. | 1 | - | 6 | 1 | - | 12 | - | - |
| 1946. | 3 | - | 6 | 1 | - | 14 | - | 1 |
| 1947. | 3 | - | 6 | 2 | 1 | 13 | - | - |
| 1948. | 2 | - | 4 | 2 | - | 10 | - | - |
| 1949. | 2 | - | 1 | 2 | - | 12 | - | - |
| 1950. | 5 | - | 1 | 2 | - | 10 | - | - |
| 1951. | 3 | 1 | 2 | 1 | - | 9 | - | 1 |
| 1952. | - | - | 1 | 1 | - | 17 | - | - |
| 1953. | - | - | 1 | 2 | 1 | 15 | 1 | - |
| 1954. | - | - | 5 | 1 | 1 | 21 | - | - |
| 1955. | 1 | - | 1 | - | - | 11 | - | - |
| 1956. | 1 | - | 3 | 3 | 1 | 19 | - | - |
| 1957. | - | - | 1 | - | - | 13 | - | - |
| 1958. | - | - | 1 | - | - | 11 | - | - |
| 1959. | 1 | - | 4 | 2 | - | 17 | 1 | - |
| 1960. | - | - | 1 | - | - | 16 | - | - |
| 1961. | - | - | 1 | - | - | 3 | - | - |
| UNKNOWN | 1 | - | 1 | - | - | 5 | - | - |
| TOTAL | 38 | 26 | 108 | 26 | 8 | 288 | 4 | 3 |

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

CHESAPEAKE FISHING VESSELS, 1961

BY YEAR BUILT - Continued

| YEAR | GEAR OPERATED | | | | | | | |
|---------|----------------------------|--------|--------|------------------------------|-----------------------|---------|---------|------|
| | GILL NETS | | LINES | | | SCRAPES | DREDGES | |
| | ANCHOR, SET OR STAKE | DRIFT | HAND | LONG OR SET WITH HOOKS | TROT WITH BAITS | | CLAM | CRAB |
| NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| 1882. | - | - | - | - | - | - | - | 1 |
| 1883. | - | - | - | - | - | - | - | 1 |
| 1889. | - | - | - | - | - | - | - | 1 |
| 1891. | - | - | - | - | - | - | - | 1 |
| 1893. | - | - | - | - | - | - | - | 1 |
| 1898. | - | - | - | - | - | - | - | 1 |
| 1901. | - | - | - | - | - | - | - | 4 |
| 1903. | - | - | - | - | - | - | - | 1 |
| 1904. | - | - | - | - | - | - | - | 1 |
| 1906. | - | - | - | - | - | - | - | 1 |
| 1907. | - | - | - | - | - | - | - | 1 |
| 1909. | - | - | - | - | - | - | - | 2 |
| 1910. | 1 | - | - | - | - | - | - | - |
| 1911. | - | - | - | - | - | - | - | 2 |
| 1912. | - | - | - | - | - | - | 1 | 5 |
| 1913. | - | - | - | 1 | - | - | - | 1 |
| 1914. | - | - | - | 2 | - | - | - | 3 |
| 1915. | - | - | - | - | - | - | - | 1 |
| 1916. | - | 1 | - | 1 | - | - | - | 1 |
| 1917. | - | - | - | - | - | - | - | 1 |
| 1918. | - | - | - | - | - | - | 1 | 2 |
| 1920. | - | - | - | - | - | - | - | 2 |
| 1921. | - | - | - | - | - | - | - | 1 |
| 1922. | - | - | - | - | - | - | - | 4 |
| 1923. | - | - | - | - | - | - | - | 8 |
| 1924. | - | - | - | - | 1 | - | - | 5 |
| 1925. | - | 1 | - | 1 | - | - | - | 6 |
| 1926. | - | 2 | - | - | - | - | - | 3 |
| 1927. | 4 | 2 | - | - | 1 | - | - | 4 |
| 1928. | - | 1 | 1 | - | - | - | - | 5 |
| 1929. | - | - | - | - | - | - | 1 | 4 |
| 1930. | - | - | - | - | - | - | 1 | 6 |
| 1931. | - | 1 | - | - | 2 | - | - | 1 |
| 1932. | 1 | 1 | - | 1 | - | - | - | 1 |
| 1934. | 2 | 2 | 1 | - | 3 | - | 3 | 2 |
| 1935. | - | - | - | - | - | - | - | 6 |
| 1936. | 1 | 1 | - | - | 2 | - | - | 2 |
| 1937. | 1 | 1 | 1 | - | 2 | - | 2 | 2 |
| 1938. | 1 | 3 | - | - | 1 | - | 2 | 3 |
| 1939. | 2 | 2 | 1 | - | 2 | - | 1 | - |
| 1940. | 4 | 3 | - | - | 1 | - | 3 | 1 |
| 1941. | 3 | 4 | - | - | 2 | - | 1 | 1 |
| 1942. | 4 | 2 | - | - | 1 | - | 3 | 1 |
| 1943. | 3 | 3 | 1 | - | 2 | - | 2 | 3 |
| 1944. | 3 | 5 | 1 | - | 7 | - | 1 | 2 |
| 1945. | 8 | 5 | - | - | 4 | - | 5 | 10 |
| 1946. | 6 | 6 | 1 | 3 | 2 | 1 | 2 | 8 |
| 1947. | 3 | 8 | 1 | - | 2 | - | 4 | 11 |
| 1948. | 7 | 7 | 1 | - | 2 | - | 5 | 4 |
| 1949. | 3 | 2 | - | 2 | 1 | - | - | - |
| 1950. | 11 | 8 | - | - | 3 | - | - | 4 |
| 1951. | 5 | 5 | - | 1 | 3 | - | 2 | 7 |
| 1952. | 5 | 3 | - | - | 1 | 3 | 2 | 6 |
| 1953. | 2 | 4 | - | - | 3 | - | 1 | 5 |
| 1954. | 3 | 3 | 1 | 1 | 2 | - | 4 | 4 |
| 1955. | 3 | 1 | - | - | - | 1 | 5 | 4 |
| 1956. | 5 | 5 | - | - | 11 | - | 15 | 3 |
| 1957. | 6 | 5 | - | 2 | 3 | - | 13 | 5 |
| 1958. | 5 | 1 | - | - | 3 | - | 9 | 2 |
| 1959. | 5 | 6 | - | - | 8 | - | 4 | 4 |
| 1960. | 3 | 3 | - | - | 1 | - | 1 | 1 |
| 1961. | 1 | 2 | - | - | 1 | - | 3 | - |
| UNKNOWN | 1 | - | - | 1 | - | - | 1 | 4 |
| TOTAL | 111 | 103 | 11 | 16 | 76 | 5 | 99 | 190 |

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

CHESAPEAKE FISHING VESSELS, 1961

BY YEAR BUILT - Continued

| YEAR | GEAR OPERATED | | | | | | TOTAL, EXCLUSIVE OF DUPLICATION |
|----------------------|------------------------|--------|---------|--------|--------|--------|---------------------------------|
| | DREDGES - CONTINUED | | SCALLOP | TONGS | | RAKES | |
| | OYSTER | | | OYSTER | OTHER | | |
| MOTOR VESSELS NUMBER | SAILING VESSELS NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| 1875. | - | - | - | - | - | - | 1 |
| 1877. | - | - | - | - | - | - | 1 |
| 1881. | - | 1 | - | - | - | - | 1 |
| 1882. | - | 1 | - | - | - | - | 2 |
| 1883. | 1 | - | - | - | - | - | 2 |
| 1884. | - | 1 | - | - | - | - | 1 |
| 1886. | - | 1 | - | - | - | - | 1 |
| 1888. | 1 | - | - | - | - | - | 1 |
| 1889. | - | 2 | - | - | - | - | 3 |
| 1890. | - | 1 | - | - | - | - | 3 |
| 1891. | 1 | 1 | - | - | - | - | 3 |
| 1892. | - | - | - | - | - | - | 1 |
| 1893. | - | - | - | - | - | - | 2 |
| 1896. | 2 | - | - | - | - | - | 2 |
| 1897. | - | 1 | - | - | - | - | 2 |
| 1898. | 2 | 1 | - | - | - | - | 4 |
| 1899. | 2 | 1 | - | - | - | - | 4 |
| 1900. | - | 2 | - | - | - | - | 3 |
| 1901. | 2 | 7 | - | - | - | - | 14 |
| 1902. | - | 1 | - | - | - | - | 5 |
| 1903. | 1 | 1 | - | 1 | - | - | 4 |
| 1904. | - | 5 | - | - | - | - | 7 |
| 1905. | - | 4 | - | - | - | - | 4 |
| 1906. | - | 3 | - | - | - | - | 5 |
| 1907. | 1 | 2 | - | 1 | - | 1 | 5 |
| 1908. | - | 5 | - | - | - | - | 5 |
| 1909. | 1 | 1 | - | 1 | - | - | 6 |
| 1910. | - | 3 | - | - | - | 1 | 5 |
| 1911. | 2 | 4 | - | 1 | - | - | 8 |
| 1912. | 3 | 1 | - | 1 | - | - | 8 |
| 1913. | 2 | - | - | - | - | - | 8 |
| 1914. | 2 | - | - | - | - | - | 6 |
| 1915. | 2 | 1 | - | 1 | 1 | - | 7 |
| 1916. | 3 | - | - | 1 | - | - | 7 |
| 1917. | 1 | 1 | 1 | 1 | - | - | 7 |
| 1918. | 1 | - | - | - | - | - | 7 |
| 1919. | 1 | - | - | 1 | - | - | 5 |
| 1920. | 4 | - | - | 1 | - | - | 8 |
| 1921. | 1 | 1 | - | - | - | - | 3 |
| 1922. | 3 | - | - | 2 | - | - | 10 |
| 1923. | 2 | - | - | 4 | - | - | 16 |
| 1924. | 4 | - | - | 3 | - | - | 13 |
| 1925. | 4 | - | - | 2 | - | - | 13 |
| 1926. | 3 | - | - | - | 1 | - | 9 |
| 1927. | 3 | - | - | 4 | - | - | 17 |
| 1928. | 2 | - | - | 2 | - | - | 10 |
| 1929. | 7 | - | - | 2 | - | - | 13 |
| 1930. | 1 | - | 1 | 2 | - | - | 14 |
| 1931. | 3 | - | - | 3 | 1 | - | 12 |
| 1932. | 2 | - | - | 5 | - | - | 10 |
| 1933. | 2 | - | - | 4 | - | - | 7 |
| 1934. | 5 | - | - | 9 | - | - | 23 |
| 1935. | 6 | - | - | 8 | - | - | 16 |
| 1936. | 7 | 1 | - | 8 | - | - | 26 |
| 1937. | 4 | - | - | 8 | - | - | 22 |
| 1938. | 3 | - | 1 | 8 | 2 | 1 | 23 |
| 1939. | 7 | - | 1 | 8 | - | - | 22 |
| 1940. | 3 | 1 | - | 12 | - | - | 30 |
| 1941. | 3 | - | - | 10 | - | - | 18 |
| 1942. | 2 | - | - | 5 | - | - | 17 |
| 1943. | 2 | - | 2 | 7 | 1 | - | 24 |
| 1944. | 7 | - | - | 10 | 1 | - | 32 |
| 1945. | 13 | - | 1 | 22 | 1 | - | 46 |
| 1946. | 10 | - | - | 24 | 1 | - | 58 |
| 1947. | 11 | - | - | 16 | 3 | - | 50 |
| 1948. | 10 | - | - | 16 | 2 | - | 50 |
| 1949. | 16 | 4 | - | 19 | 1 | - | 50 |
| 1950. | 5 | - | - | 10 | - | - | 32 |
| 1951. | 4 | - | - | 11 | 2 | - | 27 |
| 1952. | 9 | - | - | 14 | - | - | 37 |
| 1953. | 12 | 1 | - | 14 | - | - | 40 |
| 1954. | 15 | 1 | - | 18 | - | - | 48 |
| 1955. | 8 | 2 | - | 12 | - | - | 30 |
| 1956. | 10 | 1 | - | 46 | 1 | - | 74 |
| 1957. | 15 | - | - | 35 | - | - | 60 |
| 1958. | 4 | - | - | 26 | - | - | 43 |
| 1959. | 16 | - | - | 39 | 1 | - | 70 |
| 1960. | 6 | - | - | 13 | 2 | - | 30 |
| 1961. | - | - | - | 11 | 1 | - | 14 |
| UNKNOWN | 9 | 1 | - | 7 | - | 1 | 23 |
| TOTAL | 298 | 65 | 8 | 493 | 26 | 3 | 1,350 |

NOTE:--THE CHESAPEAKE STATES INCLUDE MARYLAND AND VIRGINIA.

GENERAL REVIEW

SOUTH ATLANTIC FISHING VESSELS, 1961 - BY YEAR BUILT

| YEAR | GEAR OPERATED | | | | | | | | |
|---------|---------------|--------------|--------------|--------|--------|---------|----------------|-------------------|-------|
| | HAUL SEINES | PURSE SEINES | OTTER TRAWLS | | | | POTS AND TRAPS | | |
| | | | CRAB | FISH | SHRIMP | SCALLOP | FISH | LOBSTER, SPINY | OTHER |
| NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| 1894. | - | - | - | - | 1 | - | - | - | - |
| 1897. | - | 1 | - | - | - | - | - | - | - |
| 1898. | - | - | - | - | 1 | - | - | - | - |
| 1899. | - | - | - | - | 1 | - | - | - | - |
| 1901. | - | - | - | - | 2 | - | - | - | - |
| 1906. | - | - | - | - | 1 | - | - | - | - |
| 1908. | - | - | - | - | 1 | - | - | - | - |
| 1911. | - | - | - | 1 | 3 | - | - | - | - |
| 1912. | - | - | - | - | 2 | - | - | - | - |
| 1913. | - | - | 1 | - | 2 | - | - | - | - |
| 1914. | - | - | - | - | 2 | - | - | - | - |
| 1915. | - | - | - | - | 2 | - | - | - | - |
| 1916. | - | - | - | - | 1 | - | - | - | - |
| 1917. | - | - | - | - | 1 | - | - | - | - |
| 1918. | - | - | - | - | 2 | - | - | - | - |
| 1919. | - | - | - | - | 2 | - | - | - | - |
| 1920. | 1 | - | - | - | 3 | - | - | - | - |
| 1921. | - | - | 1 | 1 | 5 | - | - | - | - |
| 1922. | 1 | - | 1 | - | 2 | - | - | - | - |
| 1923. | - | 1 | - | 1 | 6 | - | - | - | 1 |
| 1924. | - | - | - | 1 | 5 | - | - | - | - |
| 1925. | 1 | - | - | 2 | 7 | - | - | - | - |
| 1926. | 1 | - | - | - | 4 | - | - | - | - |
| 1927. | - | 1 | 1 | - | 13 | - | - | - | - |
| 1928. | - | - | 1 | - | 8 | - | - | - | - |
| 1929. | - | - | 1 | 2 | 9 | - | - | - | - |
| 1930. | 1 | 1 | - | 1 | 10 | - | - | - | - |
| 1931. | 1 | - | 1 | 1 | 10 | - | - | - | - |
| 1932. | - | - | 2 | - | 7 | - | - | - | - |
| 1933. | 1 | 1 | 1 | - | 6 | - | - | - | - |
| 1934. | - | - | - | - | 11 | - | 1 | - | - |
| 1935. | - | - | - | 1 | 15 | - | - | - | - |
| 1936. | 1 | 1 | 1 | 1 | 14 | - | - | - | - |
| 1937. | - | - | - | 1 | 14 | - | - | - | - |
| 1938. | 3 | 1 | - | - | 12 | - | 1 | - | - |
| 1939. | 1 | - | - | - | 13 | - | - | - | - |
| 1940. | - | 1 | - | - | 7 | - | - | - | - |
| 1941. | - | 2 | 1 | 1 | 15 | - | - | - | - |
| 1942. | 1 | 4 | 1 | 3 | 22 | - | - | - | - |
| 1943. | 1 | 11 | 1 | 3 | 20 | - | - | - | - |
| 1944. | - | 8 | 2 | 3 | 36 | 1 | - | - | - |
| 1945. | 2 | - | 4 | - | 37 | - | 3 | 2 | - |
| 1946. | 4 | - | 5 | 5 | 77 | - | 6 | 1 | - |
| 1947. | 2 | - | 3 | 4 | 66 | - | 1 | 1 | - |
| 1948. | - | 1 | 3 | 1 | 53 | - | 3 | - | - |
| 1949. | - | 1 | 4 | 3 | 61 | - | 6 | 1 | - |
| 1950. | - | 1 | - | 1 | 26 | 1 | 1 | - | - |
| 1951. | - | - | - | 2 | 35 | - | 4 | - | - |
| 1952. | - | 2 | 1 | - | 16 | - | 2 | - | - |
| 1953. | - | 1 | 1 | 2 | 27 | - | - | - | - |
| 1954. | 2 | 1 | - | 6 | 51 | 1 | - | - | - |
| 1955. | - | 6 | 1 | 3 | 40 | 1 | 2 | - | - |
| 1956. | - | 2 | - | 9 | 60 | 2 | - | - | - |
| 1957. | - | 2 | 3 | 5 | 68 | 3 | 1 | - | - |
| 1958. | - | 3 | - | 6 | 69 | - | - | - | - |
| 1959. | - | 1 | 1 | 2 | 41 | - | - | - | - |
| 1960. | - | 1 | - | - | 14 | - | 2 | - | - |
| 1961. | - | - | - | - | 20 | - | 1 | - | - |
| UNKNOWN | - | - | - | - | 12 | - | - | - | - |
| TOTAL | 23 | 55 | 41 | 71 | 1,071 | 9 | 36 | 5 | 1 |

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

93

SOUTH ATLANTIC FISHING VESSELS, 1961 BY YEAR BUILT - Continued

| YEAR | GEAR OPERATED. | | | | | | | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|-------------------|----------------|--------|--------|--------|---------|--------|---------|--|
| | GILL NETS | | LINES | | DREDGES | | | |
| | RUNAROUND | OTHER | HAND | TROLL | CLAM | OYSTER | SCALLOP | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| 1894 | - | - | - | - | - | - | - | 1 |
| 1897 | - | - | - | - | - | - | - | 1 |
| 1898 | - | - | - | - | - | - | - | 1 |
| 1899 | - | - | - | - | - | - | - | 1 |
| 1901 | - | - | - | - | - | - | - | 2 |
| 1906 | - | - | - | - | - | - | - | 1 |
| 1908 | - | - | - | - | - | - | - | 1 |
| 1911 | - | - | - | - | - | - | - | 3 |
| 1912 | - | - | - | - | - | - | - | 2 |
| 1913 | - | - | - | - | - | - | - | 2 |
| 1914 | - | - | - | - | - | - | - | 2 |
| 1915 | - | - | - | - | - | - | - | 2 |
| 1916 | - | - | - | - | - | - | - | 1 |
| 1917 | - | - | - | - | - | - | - | 1 |
| 1918 | - | - | - | - | - | - | - | 2 |
| 1919 | - | - | - | - | - | - | - | 2 |
| 1920 | - | - | - | - | - | 1 | - | 4 |
| 1921 | - | - | - | - | - | - | - | 5 |
| 1922 | - | - | - | - | - | - | - | 3 |
| 1923 | - | - | - | - | - | - | - | 6 |
| 1924 | - | - | 1 | - | - | - | - | 6 |
| 1925 | - | - | - | - | - | - | - | 8 |
| 1926 | - | - | - | - | - | 1 | - | 4 |
| 1927 | 1 | - | - | - | - | 2 | - | 15 |
| 1928 | - | - | - | - | - | - | - | 8 |
| 1929 | - | - | 1 | - | - | - | - | 11 |
| 1930 | - | 1 | - | - | - | 1 | - | 11 |
| 1931 | - | - | 2 | - | - | 1 | - | 11 |
| 1932 | - | - | - | - | - | 1 | - | 6 |
| 1933 | - | - | - | - | - | 1 | - | 6 |
| 1934 | - | - | - | - | - | 2 | - | 12 |
| 1935 | - | 1 | 1 | - | - | 1 | - | 16 |
| 1936 | 1 | 2 | 1 | - | 1 | - | - | 18 |
| 1937 | - | - | - | - | 1 | - | - | 14 |
| 1938 | - | 1 | - | - | - | - | - | 14 |
| 1939 | - | - | 1 | - | - | - | - | 14 |
| 1940 | - | - | 1 | - | - | - | - | 6 |
| 1941 | - | - | - | - | - | - | - | 16 |
| 1942 | - | - | 1 | - | - | - | - | 27 |
| 1943 | - | - | 2 | - | - | - | - | 32 |
| 1944 | 1 | - | - | - | 1 | - | - | 44 |
| 1945 | 1 | - | 2 | - | 1 | - | - | 42 |
| 1946 | 1 | 3 | 7 | 1 | - | 1 | 1 | 86 |
| 1947 | 1 | - | 3 | - | - | 3 | 1 | 70 |
| 1948 | - | 2 | 2 | - | - | 3 | - | 56 |
| 1949 | - | - | 1 | - | - | 1 | - | 68 |
| 1950 | - | - | 1 | - | - | - | - | 26 |
| 1951 | - | - | 1 | - | - | - | - | 41 |
| 1952 | - | - | 2 | - | - | - | - | 20 |
| 1953 | 1 | - | 1 | - | - | - | - | 29 |
| 1954 | - | - | 2 | - | 3 | - | - | 54 |
| 1955 | - | - | 3 | - | - | - | - | 46 |
| 1956 | - | - | - | - | 2 | - | - | 62 |
| 1957 | - | - | - | - | 1 | 1 | - | 68 |
| 1958 | - | - | - | - | - | - | - | 72 |
| 1959 | - | - | 5 | - | - | - | - | 44 |
| 1960 | - | - | - | - | - | - | - | 16 |
| 1961 | - | - | - | - | - | - | - | 20 |
| UNKNOWN | - | - | 1 | - | - | 2 | - | 13 |
| TOTAL | 6 | 10 | 42 | 1 | 9 | 22 | 1 | 1,185 |

NOTE:--THE SOUTH ATLANTIC STATES INCLUDE NORTH CAROLINA, SOUTH CAROLINA, GEORGIA, AND THE EAST COAST OF FLORIDA.

GENERAL REVIEW

GULF FISHING VESSELS, 1961 - BY YEAR BUILT

| YEAR | GEAR OPERATED | | | | | | | |
|---------|---------------|--------------|--------------|--------|--------|----------------------|-----------|-----------|
| | HAUL SEINES | PURSE SEINES | OTTER TRAWLS | | | POTS, LOBSTER, SPINY | GILL NETS | |
| | | | CRAB | FISH | SHRIMP | | DRIFT | RUNAROUND |
| NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| 1874 | - | - | - | - | 1 | - | - | - |
| 1888 | - | - | - | - | 1 | - | - | - |
| 1891 | - | - | - | - | 2 | - | - | - |
| 1892 | - | - | - | - | 1 | - | - | - |
| 1896 | - | - | - | - | 1 | - | - | - |
| 1899 | - | - | - | - | 1 | - | - | - |
| 1900 | - | - | - | - | 2 | - | - | - |
| 1901 | - | - | - | 1 | 1 | - | - | - |
| 1902 | - | - | - | - | 2 | - | - | - |
| 1903 | - | - | - | - | 2 | - | - | - |
| 1904 | - | - | - | - | 2 | - | - | - |
| 1905 | - | - | - | - | 4 | - | - | - |
| 1906 | - | - | - | - | 3 | - | - | - |
| 1909 | - | - | - | - | 2 | - | - | - |
| 1911 | - | 1 | - | - | - | - | - | - |
| 1912 | - | - | - | - | 2 | - | - | - |
| 1915 | - | - | - | - | 4 | - | - | - |
| 1916 | - | - | - | - | 2 | - | - | - |
| 1917 | - | - | - | - | 1 | - | - | - |
| 1918 | - | - | - | - | 4 | - | - | - |
| 1919 | - | - | - | - | 1 | - | - | - |
| 1920 | - | - | - | - | 4 | - | - | - |
| 1921 | - | - | - | - | 2 | - | - | - |
| 1922 | - | - | - | - | 1 | - | - | - |
| 1923 | - | - | - | 1 | 4 | - | - | - |
| 1924 | - | - | - | - | 13 | - | - | - |
| 1925 | - | 1 | - | - | 14 | - | - | - |
| 1926 | - | - | - | - | 8 | - | - | - |
| 1927 | - | - | - | - | 5 | - | - | - |
| 1928 | - | - | - | - | 12 | - | - | - |
| 1929 | - | - | - | 1 | 14 | - | - | - |
| 1930 | - | 1 | - | - | 10 | - | 1 | 1 |
| 1931 | - | - | - | - | 11 | - | - | - |
| 1932 | - | - | - | - | 3 | - | - | - |
| 1933 | - | - | - | 2 | 3 | - | - | - |
| 1934 | - | - | - | 1 | 7 | - | - | - |
| 1935 | - | - | - | - | 16 | - | - | - |
| 1936 | - | - | - | 1 | 30 | - | 1 | 3 |
| 1937 | - | - | - | - | 30 | - | - | 1 |
| 1938 | - | - | - | 2 | 39 | - | - | 1 |
| 1939 | 1 | - | - | - | 18 | - | - | 3 |
| 1940 | - | - | - | 1 | 29 | 2 | - | 4 |
| 1941 | - | - | - | - | 26 | - | - | - |
| 1942 | - | 2 | - | 2 | 36 | - | 1 | 1 |
| 1943 | - | 3 | - | 6 | 60 | - | - | 2 |
| 1944 | 1 | 3 | - | 1 | 75 | - | 1 | 3 |
| 1945 | 2 | 11 | - | 6 | 81 | 1 | - | 3 |
| 1946 | 1 | 3 | - | 13 | 119 | 2 | 2 | 3 |
| 1947 | 1 | 4 | - | 8 | 119 | - | - | 2 |
| 1948 | 2 | 2 | - | 10 | 144 | 2 | - | - |
| 1949 | 1 | 3 | - | 5 | 82 | 1 | - | 1 |
| 1950 | - | 2 | - | 4 | 101 | - | - | - |
| 1951 | - | - | - | 1 | 120 | - | - | - |
| 1952 | - | 1 | - | - | 123 | - | - | 1 |
| 1953 | - | 2 | - | 6 | 236 | - | - | 1 |
| 1954 | - | 6 | - | 6 | 231 | - | - | 1 |
| 1955 | - | 6 | - | 4 | 67 | 2 | - | - |
| 1956 | - | 9 | - | 6 | 108 | - | - | 2 |
| 1957 | - | 6 | - | 1 | 197 | 3 | - | - |
| 1958 | - | 2 | - | 3 | 265 | 2 | - | 2 |
| 1959 | - | 2 | 1 | - | 99 | - | - | 3 |
| 1960 | 1 | 9 | - | 3 | 33 | 1 | - | 3 |
| 1961 | - | - | - | - | 36 | - | - | 1 |
| UNKNOWN | - | - | - | - | 7 | - | - | - |
| TOTAL | 10 | 69 | 1 | 96 | 2,686 | 16 | 6 | 40 |

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

95

GULF FISHING VESSELS, 1961 - BY YEAR BUILT - Continued

| YEAR | GEAR OPERATED | | | | | | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|---------|-----------------|--------|--------|---------------------------|--------------------|-------------------|--|
| | TRAMMEL NETS | LINES | | | DREDGES, OYSTER | DIVING OUTFITS | |
| | | HAND | TROLL | LONG OR SET WJTH HOOKS | | | |
| NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| 1865. | - | 1 | - | - | - | - | 1 |
| 1874. | - | - | - | - | - | - | 1 |
| 1884. | - | - | - | - | 1 | - | 1 |
| 1888. | - | - | - | - | - | - | 1 |
| 1891. | - | - | - | - | - | - | 2 |
| 1892. | - | - | - | - | - | - | 1 |
| 1893. | - | - | - | - | 1 | - | 1 |
| 1896. | - | - | - | - | 1 | - | 2 |
| 1899. | - | 1 | - | - | - | - | 2 |
| 1900. | - | - | - | - | 2 | - | 2 |
| 1901. | 1 | - | - | - | 2 | - | 4 |
| 1902. | - | - | - | - | - | - | 1 |
| 1903. | - | - | - | - | 1 | - | 3 |
| 1904. | - | - | - | - | 3 | - | 4 |
| 1905. | - | - | - | - | 6 | - | 8 |
| 1906. | - | - | - | - | 4 | - | 4 |
| 1909. | - | 1 | - | - | 1 | - | 4 |
| 1911. | - | - | - | - | - | - | 1 |
| 1912. | - | 1 | 1 | - | 4 | - | 6 |
| 1913. | - | 2 | - | - | - | - | 2 |
| 1914. | - | - | - | - | 2 | - | 2 |
| 1915. | - | 1 | - | - | 1 | - | 5 |
| 1916. | - | - | - | - | 1 | - | 2 |
| 1917. | - | 1 | - | - | 3 | - | 5 |
| 1918. | - | 1 | - | - | 1 | - | 6 |
| 1919. | - | 1 | - | - | - | - | 2 |
| 1920. | - | - | - | - | - | - | 4 |
| 1921. | - | - | - | - | 1 | - | 3 |
| 1922. | - | 1 | - | - | 2 | - | 3 |
| 1923. | - | 2 | - | - | 3 | 1 | 9 |
| 1924. | - | 5 | - | - | 3 | - | 21 |
| 1925. | - | 8 | - | - | 5 | 2 | 27 |
| 1926. | - | 2 | - | - | 5 | 2 | 15 |
| 1927. | - | 4 | - | - | 2 | - | 11 |
| 1928. | 1 | 1 | - | - | 5 | 1 | 17 |
| 1929. | 1 | 5 | - | - | 10 | 1 | 29 |
| 1930. | 1 | 4 | - | - | 6 | - | 20 |
| 1931. | - | 3 | - | - | 4 | - | 15 |
| 1932. | - | 1 | - | - | 1 | - | 5 |
| 1933. | - | 3 | - | - | 3 | - | 7 |
| 1934. | - | 3 | - | - | 1 | 1 | 11 |
| 1935. | 2 | 6 | - | - | 8 | - | 22 |
| 1936. | - | 3 | - | - | 16 | - | 39 |
| 1937. | 1 | 9 | 1 | - | 15 | - | 56 |
| 1938. | - | 9 | - | - | 5 | 1 | 50 |
| 1939. | - | 7 | - | - | 4 | - | 30 |
| 1940. | 1 | 8 | 2 | - | 6 | - | 46 |
| 1941. | 1 | 9 | 2 | - | 4 | 1 | 39 |
| 1942. | - | 5 | - | - | 5 | - | 44 |
| 1943. | - | 5 | 1 | - | 8 | - | 71 |
| 1944. | 1 | 4 | - | - | 5 | - | 85 |
| 1945. | - | 15 | 1 | - | 6 | - | 101 |
| 1946. | 1 | 12 | 2 | 1 | 22 | - | 144 |
| 1947. | 2 | 22 | 2 | - | 24 | - | 148 |
| 1948. | 2 | 24 | 2 | - | 27 | - | 179 |
| 1949. | - | 13 | 1 | - | 11 | - | 101 |
| 1950. | 1 | 27 | 4 | - | 10 | - | 128 |
| 1951. | - | 14 | 1 | - | 2 | - | 126 |
| 1952. | 1 | 19 | - | - | 6 | - | 141 |
| 1953. | 1 | 31 | 2 | - | 5 | - | 251 |
| 1954. | - | 15 | 1 | 1 | 9 | - | 252 |
| 1955. | - | 9 | 4 | - | 8 | - | 87 |
| 1956. | - | 8 | 1 | - | 10 | - | 126 |
| 1957. | - | 24 | 3 | - | 3 | - | 219 |
| 1958. | - | 32 | 2 | - | 9 | - | 284 |
| 1959. | - | 11 | - | - | 2 | - | 109 |
| 1960. | 2 | 12 | 3 | - | 8 | - | 66 |
| 1961. | 1 | 3 | - | - | 1 | - | 40 |
| UNKNOWN | - | 3 | - | - | 2 | - | 12 |
| TOTAL | 21 | 409 | 36 | 2 | 326 | 10 | 3,267 |

NOTE:--THE GULF STATES INCLUDE THE WEST COAST OF FLORIDA, ALABAMA, MISSISSIPPI, LOUISIANA, AND TEXAS.

GENERAL REVIEW

PACIFIC COAST FISHING VESSELS, 1961 - BY YEAR BUILT

| YEAR | GEAR OPERATED | | | | | | | | LAMPARA NETS, SQUID | BEAM TRAWLS, SHRIMP |
|-------------------|---------------------------|--------------|---------------|--------|---------|--------|--------|--------|---------------------------|---------------------------|
| | HAUL SEINES, COMMON | PURSE SEINES | | | | | | OTHER | | |
| | | HERRING | MACK- EREL | SALMON | SARDINE | TUNA | OTHER | | | |
| NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| 1891. | - | - | - | 1 | - | - | - | - | - | |
| 1907. | - | - | - | 3 | - | - | - | - | - | |
| 1908. | - | - | 1 | 2 | - | - | - | - | 1 | |
| 1909. | - | - | - | - | - | - | - | - | - | |
| 1910. | - | - | - | 2 | - | - | - | - | 1 | |
| 1911. | - | - | - | 5 | - | - | - | - | - | |
| 1912. | - | - | - | 18 | - | - | - | - | 1 | |
| 1913. | - | - | - | 20 | - | - | - | - | - | |
| 1914. | - | - | 1 | 13 | - | - | - | - | - | |
| 1915. | - | - | - | 25 | - | - | - | - | - | |
| 1916. | - | - | - | 7 | - | - | - | - | 1 | |
| 1917. | - | - | 2 | 41 | 1 | - | 1 | 1 | 2 | |
| 1918. | - | - | - | 10 | - | - | 2 | - | - | |
| 1919. | - | - | - | 10 | - | - | - | - | 1 | |
| 1920. | - | - | - | 20 | - | - | - | - | - | |
| 1921. | - | - | - | 3 | - | - | - | - | 1 | |
| 1922. | - | - | - | 1 | - | - | 1 | - | 2 | |
| 1923. | - | - | - | 3 | - | - | - | - | - | |
| 1924. | - | - | - | 3 | - | - | - | - | - | |
| 1925. | - | - | 1 | 10 | 1 | - | 1 | 1 | - | |
| 1926. | - | - | 2 | 11 | 2 | - | - | 1 | 1 | |
| 1927. | - | 1 | 1 | 24 | 1 | 1 | - | 1 | 1 | |
| 1928. | - | - | - | 11 | - | - | 1 | - | - | |
| 1929. | - | - | 1 | 25 | 1 | - | - | 1 | - | |
| 1930. | - | - | 3 | 12 | 3 | - | - | 1 | 1 | |
| 1931. | - | - | - | 10 | - | - | - | - | - | |
| 1932. | - | - | - | 7 | 1 | - | - | - | - | |
| 1934. | - | - | - | 7 | - | - | - | - | - | |
| 1935. | - | - | 8 | 17 | 6 | 3 | - | - | 1 | |
| 1936. | - | - | 2 | 16 | 6 | 2 | 1 | - | - | |
| 1937. | 1 | 6 | 8 | 11 | 8 | 3 | - | - | 2 | |
| 1938. | - | 1 | - | 16 | - | - | - | - | 1 | |
| 1939. | - | - | 8 | 11 | 6 | 4 | 1 | - | 1 | |
| 1940. | - | 1 | 7 | 6 | 6 | 2 | 1 | 1 | - | |
| 1941. | - | - | - | 16 | - | 3 | - | - | - | |
| 1942. | 1 | 3 | - | 20 | - | 3 | 1 | - | - | |
| 1943. | - | - | 1 | 17 | 1 | - | - | - | - | |
| 1944. | 1 | 1 | 14 | 34 | 14 | 16 | 2 | 2 | 3 | |
| 1945. | - | 3 | 6 | 39 | 4 | 23 | 2 | 1 | 2 | |
| 1946. | - | 4 | 6 | 70 | 4 | 18 | 3 | 3 | 2 | |
| 1947. | 1 | 1 | 5 | 52 | 4 | 10 | 4 | 2 | 1 | |
| 1948. | - | - | 5 | 38 | 3 | 6 | 2 | 1 | - | |
| 1949. | - | - | 4 | 66 | 4 | 5 | - | - | 1 | |
| 1950. | - | - | 4 | 52 | 2 | 2 | - | 1 | 3 | |
| 1951. | 1 | - | 2 | 60 | 2 | 10 | 1 | - | - | |
| 1952. | - | - | 1 | 38 | 2 | 2 | 2 | - | - | |
| 1953. | 1 | 1 | 4 | 16 | 2 | - | - | - | - | |
| 1954. | - | - | - | 4 | - | 2 | - | 1 | - | |
| 1955. | - | - | - | 23 | - | 1 | - | - | - | |
| 1956. | - | - | - | 33 | - | 1 | - | - | - | |
| 1957. | - | 1 | 1 | 33 | 1 | - | - | - | - | |
| 1958. | - | - | 1 | 22 | 1 | - | 1 | - | - | |
| 1959. | - | - | - | 19 | - | - | - | - | - | |
| 1960. | - | - | - | 16 | - | - | 1 | - | - | |
| 1961. | - | - | 1 | 8 | 1 | 1 | - | 1 | - | |
| UNKNOWN | 1 | - | - | - | - | - | 1 | - | - | |
| TOTAL | 8 | 23 | 100 | 1,058 | 87 | 126 | 31 | 18 | 30 | |

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

PACIFIC COAST FISHING VESSELS, 1961 - BY YEAR BUILT - Continued

| YEAR | GEAR OPERATED | | | | | | | |
|---------|---------------|--------|--------|----------------|--------|------------------------|---------------------------------------|--------------------|
| | OTTER TRAWLS | | | POTS AND TRAPS | | | GILL NETS | |
| | CRAB | FISH | SHRIMP | CRAB | | LOB- STER, SPINY | ANCHOR, SET OR STAKE, SALMON | DRIFT BARRACUDA |
| | | | | DUNGENESE | KING | | | |
| NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| 1900. | - | 1 | - | - | - | - | - | - |
| 1901. | - | 1 | - | - | - | - | - | - |
| 1902. | - | 1 | - | - | - | - | - | - |
| 1906. | - | 1 | - | 2 | - | - | - | - |
| 1907. | - | 2 | - | 1 | - | - | - | - |
| 1908. | - | 2 | - | 1 | - | - | - | - |
| 1909. | - | - | - | - | - | - | - | - |
| 1910. | - | - | - | 2 | - | - | - | - |
| 1911. | - | 2 | - | 2 | - | - | - | - |
| 1912. | - | 5 | - | 3 | 5 | - | - | - |
| 1913. | - | 5 | - | 2 | 1 | - | - | - |
| 1914. | - | 2 | 2 | 2 | 5 | - | 2 | - |
| 1915. | - | 8 | 1 | 1 | 1 | - | - | - |
| 1916. | - | 9 | - | 7 | 6 | - | - | - |
| 1917. | - | 5 | - | 8 | 3 | - | 1 | - |
| 1918. | - | - | - | - | - | - | - | - |
| 1919. | - | 1 | 1 | 4 | - | - | - | - |
| 1920. | - | 5 | 1 | 6 | - | - | - | - |
| 1921. | - | - | - | 3 | - | - | - | - |
| 1922. | - | 2 | - | 3 | 1 | - | - | - |
| 1923. | - | 2 | - | 8 | 3 | - | - | - |
| 1924. | - | 5 | - | 8 | 2 | - | - | - |
| 1925. | - | - | - | 8 | 4 | - | 2 | - |
| 1926. | - | 10 | 2 | 12 | 7 | - | 1 | - |
| 1927. | - | 14 | 2 | 7 | 5 | - | 1 | - |
| 1928. | - | 7 | 1 | 11 | 1 | 1 | 1 | - |
| 1929. | - | 5 | - | 7 | 2 | - | - | - |
| 1930. | - | 6 | - | 6 | 5 | - | - | - |
| 1931. | - | 1 | - | 1 | - | - | - | - |
| 1932. | - | - | - | 1 | 1 | - | - | - |
| 1933. | - | - | - | 2 | - | - | - | - |
| 1934. | 1 | 1 | - | 2 | 2 | 1 | - | - |
| 1935. | - | 2 | - | 10 | 4 | - | - | - |
| 1936. | - | 2 | - | 4 | 3 | - | - | - |
| 1937. | - | 5 | 1 | 3 | 1 | - | - | - |
| 1938. | - | 4 | - | 11 | 2 | - | - | - |
| 1939. | - | 12 | 2 | 9 | 2 | - | - | - |
| 1940. | - | 4 | - | 11 | 3 | 2 | - | 1 |
| 1941. | - | 9 | 4 | 6 | 1 | 1 | - | - |
| 1942. | - | 10 | 3 | 26 | 9 | - | 1 | - |
| 1943. | - | 17 | 4 | 12 | 9 | - | 2 | - |
| 1944. | - | 17 | 4 | 19 | 11 | 3 | - | 2 |
| 1945. | - | 17 | 3 | 28 | 23 | 3 | 2 | 1 |
| 1946. | - | 14 | 2 | 37 | 21 | 1 | 2 | 1 |
| 1947. | - | 7 | 1 | 37 | 19 | 3 | 4 | - |
| 1948. | - | 6 | 1 | 19 | 8 | 2 | - | 1 |
| 1949. | - | 3 | 2 | 22 | 22 | 1 | 1 | 1 |
| 1950. | - | 1 | - | 14 | 8 | - | 3 | - |
| 1951. | - | 5 | 1 | 11 | 14 | - | 3 | 1 |
| 1952. | - | - | - | 7 | 11 | 2 | 1 | 1 |
| 1953. | - | - | - | 4 | 6 | - | 2 | 1 |
| 1954. | - | - | - | 8 | 1 | 1 | - | - |
| 1955. | - | 3 | - | 6 | 8 | 1 | 1 | - |
| 1956. | - | - | - | 3 | 10 | - | 2 | - |
| 1957. | - | 1 | - | 3 | 15 | - | 1 | - |
| 1958. | - | 1 | - | 7 | 6 | - | - | - |
| 1959. | - | - | - | 5 | 6 | 1 | 2 | - |
| 1960. | - | - | - | 8 | 7 | - | 1 | - |
| 1961. | - | 1 | - | 3 | - | - | - | - |
| UNKNOWN | - | - | - | 9 | - | 1 | - | 1 |
| TOTAL | 1 | 233 | 34 | 468 | 284 | 26 | 35 | 11 |

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

PACIFIC COAST FISHING VESSELS, 1961 - BY YEAR BUILT - Continued

| YEAR | GEAR OPERATED | | | | | | | | |
|---------|-----------------------|----------|--------|-----------|-----------------------------|--------|--------|--------|------------------------------|
| | GILL NETS - CONTINUED | | | HAND | | LINES | | | LONG OR SET WITH HOOKS |
| | DRIFT - CONTINUED | | | YELLOWFIN | ALBACORE AND ROCKFISH | SALMON | TUNA | OTHER | |
| | SALMON | SEA BASS | OTHER | | | | | | |
| NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| 1893. | - | - | - | - | - | 1 | 1 | - | - |
| 1894. | - | - | - | - | - | 1 | 1 | - | - |
| 1900. | - | - | - | - | - | 1 | - | - | - |
| 1901. | - | - | - | - | - | - | 1 | - | - |
| 1902. | - | - | - | - | - | 1 | - | - | - |
| 1903. | - | - | - | - | - | 4 | - | - | 1 |
| 1904. | - | - | - | - | - | 2 | - | - | - |
| 1905. | - | - | - | - | - | 3 | - | - | - |
| 1906. | - | - | - | - | - | 2 | - | - | - |
| 1907. | - | - | - | - | - | 10 | 2 | - | 2 |
| 1908. | 1 | - | - | - | 1 | 7 | 3 | - | 2 |
| 1909. | - | - | - | - | - | 8 | 3 | - | - |
| 1910. | - | - | - | - | - | 8 | 3 | - | 1 |
| 1911. | 1 | - | - | - | - | 10 | 1 | - | 2 |
| 1912. | - | - | - | - | - | 16 | 3 | - | 6 |
| 1913. | - | - | - | - | 1 | 19 | 3 | - | 11 |
| 1914. | 2 | - | - | - | - | 17 | 4 | - | 5 |
| 1915. | 2 | - | - | - | - | 18 | 8 | - | 7 |
| 1916. | 6 | - | - | - | 2 | 13 | 3 | - | 2 |
| 1917. | 5 | 1 | - | - | 4 | 28 | 14 | - | 10 |
| 1918. | 6 | - | - | - | 4 | 54 | 8 | - | 4 |
| 1919. | 3 | - | - | - | 1 | 36 | 4 | - | 6 |
| 1920. | 6 | - | - | - | 3 | 45 | 9 | - | 8 |
| 1921. | 2 | - | - | - | 1 | 15 | 6 | - | 1 |
| 1922. | - | - | - | - | - | 16 | 2 | - | 1 |
| 1923. | 2 | - | - | - | 1 | 9 | 4 | - | 6 |
| 1924. | 2 | - | - | 2 | 4 | 22 | 13 | - | 12 |
| 1925. | 1 | - | - | - | 1 | 39 | 8 | - | 12 |
| 1926. | 4 | 2 | - | - | 4 | 53 | 18 | - | 7 |
| 1927. | 9 | - | 1 | - | 1 | 50 | 12 | - | 13 |
| 1928. | 5 | - | - | - | 3 | 97 | 16 | - | 17 |
| 1929. | 11 | 1 | - | 2 | 3 | 47 | 14 | - | 13 |
| 1930. | 6 | - | - | 1 | 2 | 37 | 12 | - | 8 |
| 1931. | 5 | - | - | - | - | 23 | 5 | - | 2 |
| 1932. | 1 | - | - | - | - | 22 | 2 | - | 1 |
| 1933. | 2 | - | - | - | - | 12 | 2 | - | - |
| 1934. | 1 | - | - | - | 3 | 21 | 3 | - | 3 |
| 1935. | 2 | - | - | - | 4 | 35 | 13 | - | 7 |
| 1936. | 3 | - | - | 1 | 7 | 29 | 12 | - | 3 |
| 1937. | 1 | - | - | 3 | 2 | 28 | 8 | - | 7 |
| 1938. | 7 | - | - | - | 4 | 42 | 10 | - | 6 |
| 1939. | 8 | - | - | - | 6 | 65 | 25 | - | 5 |
| 1940. | 7 | 2 | - | - | 2 | 62 | 21 | - | 4 |
| 1941. | 11 | - | - | 3 | 4 | 51 | 20 | - | 11 |
| 1942. | 10 | - | - | - | 6 | 73 | 30 | - | 10 |
| 1943. | 10 | - | - | - | 10 | 73 | 25 | - | 5 |
| 1944. | 13 | 2 | - | 1 | 17 | 93 | 44 | - | 7 |
| 1945. | 7 | 3 | - | 5 | 26 | 101 | 63 | - | 17 |
| 1946. | 14 | 4 | - | 5 | 28 | 96 | 77 | - | 20 |
| 1947. | 19 | 1 | 2 | 1 | 17 | 120 | 63 | - | 14 |
| 1948. | 14 | 3 | 1 | 1 | 15 | 91 | 48 | - | 13 |
| 1949. | 26 | 3 | 1 | 2 | 12 | 68 | 37 | - | 11 |
| 1950. | 18 | - | - | 2 | 5 | 53 | 24 | - | 19 |
| 1951. | 49 | 2 | - | 2 | 10 | 42 | 25 | - | 12 |
| 1952. | 116 | 1 | - | - | 6 | 26 | 12 | - | 6 |
| 1953. | 55 | 2 | - | - | 5 | 34 | 15 | - | 2 |
| 1954. | 18 | - | - | 2 | 9 | 19 | 18 | 1 | 2 |
| 1955. | 49 | - | - | 2 | 1 | 19 | 10 | - | 1 |
| 1956. | 18 | - | - | 1 | 1 | 17 | 3 | - | 1 |
| 1957. | 23 | - | - | 3 | 2 | 17 | 8 | - | 5 |
| 1958. | 14 | - | - | 2 | 2 | 10 | 4 | - | 2 |
| 1959. | 19 | - | - | 2 | 4 | 20 | 9 | 1 | 1 |
| 1960. | 17 | - | - | - | 3 | 10 | 7 | - | 1 |
| 1961. | 4 | - | - | - | 1 | - | 5 | - | 1 |
| UNKNOWN | 1 | - | - | - | 1 | 30 | 8 | - | 1 |
| TOTAL | 636 | 27 | 5 | 44 | 247 | 2,090 | 835 | 2 | 359 |

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

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PACIFIC COAST FISHING VESSELS, 1961 - BY YEAR BUILT - Continued

| YEAR | GEAR OPERATED | | | | | | | | TOTAL, EXCLUSIVE OF DUPLICATION |
|---------|------------------|---------------------|------------|--------|---------|--------|---------|-------------------------|---------------------------------|
| | DIP NETS, COMMON | BRAIL OR SCOOP NETS | HARPOONS | | DREDGES | | | DIVING OUTFITS, ABALONE | |
| | | | SWORD-FISH | WHALE | CLAM | OYSTER | | | |
| | | | | | | COMMON | SUCTION | | |
| NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| 1891. | - | - | - | - | - | - | - | - | 1 |
| 1893. | - | - | - | - | - | - | - | - | 1 |
| 1894. | - | - | - | - | - | - | - | - | 1 |
| 1900. | - | - | - | 1 | - | - | - | - | 1 |
| 1901. | - | - | - | - | - | - | - | - | 2 |
| 1902. | - | - | - | - | - | - | - | - | 1 |
| 1903. | - | - | - | - | - | - | - | - | 5 |
| 1904. | - | - | - | - | - | - | - | - | 2 |
| 1905. | - | - | - | - | - | - | - | - | 3 |
| 1906. | - | - | - | - | - | 1 | - | - | 4 |
| 1907. | - | 1 | - | - | - | - | - | - | 14 |
| 1908. | - | - | - | - | - | - | - | - | 12 |
| 1909. | - | - | - | - | - | - | - | - | 13 |
| 1910. | - | 1 | - | - | - | - | - | - | 14 |
| 1911. | - | - | - | - | - | - | - | - | 18 |
| 1912. | - | - | - | - | - | - | - | - | 40 |
| 1913. | - | - | - | - | - | - | - | - | 48 |
| 1914. | - | 1 | - | - | - | - | - | - | 36 |
| 1915. | - | 2 | - | - | - | - | - | - | 57 |
| 1916. | - | 1 | - | - | - | - | - | - | 30 |
| 1917. | - | 3 | - | - | - | - | - | - | 92 |
| 1918. | - | 1 | - | - | - | 1 | - | 1 | 65 |
| 1919. | - | - | - | - | - | - | - | - | 57 |
| 1920. | - | - | - | - | - | - | - | - | 60 |
| 1921. | - | - | - | - | - | - | - | - | 25 |
| 1922. | - | - | - | - | - | - | - | - | 22 |
| 1923. | - | - | - | - | - | - | - | - | 47 |
| 1924. | - | 1 | - | - | - | - | - | - | 67 |
| 1925. | - | - | - | - | - | - | - | - | 85 |
| 1926. | - | 1 | - | - | - | - | - | - | 105 |
| 1927. | - | - | - | - | - | - | - | - | 139 |
| 1928. | - | - | - | - | - | - | - | - | 96 |
| 1929. | - | - | 1 | - | - | - | - | - | 70 |
| 1930. | - | - | - | - | - | - | - | - | 43 |
| 1931. | - | 1 | - | - | - | 2 | - | - | 24 |
| 1932. | - | - | - | - | - | - | - | - | 13 |
| 1933. | - | - | - | - | - | - | - | - | 32 |
| 1934. | - | 1 | - | - | - | 1 | - | - | 72 |
| 1935. | - | - | - | - | - | 2 | - | - | 59 |
| 1936. | - | - | - | - | - | - | - | - | 77 |
| 1937. | - | 1 | 1 | - | - | 1 | - | - | 77 |
| 1938. | - | - | - | - | - | 1 | - | 1 | 77 |
| 1939. | - | 1 | - | - | - | - | - | - | 108 |
| 1940. | - | 1 | - | - | - | - | - | 1 | 99 |
| 1941. | - | 2 | - | - | - | 1 | - | 2 | 110 |
| 1942. | 1 | 1 | - | 1 | - | - | - | - | 143 |
| 1943. | 1 | 1 | - | 2 | - | 1 | - | - | 122 |
| 1944. | 1 | 4 | 1 | 2 | 1 | 4 | - | - | 220 |
| 1945. | - | 6 | 4 | - | - | 3 | - | 1 | 241 |
| 1946. | - | 4 | 4 | - | - | 2 | - | - | 268 |
| 1947. | - | 6 | 2 | - | - | 4 | - | - | 246 |
| 1948. | - | 3 | 2 | - | - | 1 | - | 1 | 171 |
| 1949. | - | 1 | 1 | - | - | - | - | - | 165 |
| 1950. | - | 2 | - | - | - | - | - | 1 | 134 |
| 1951. | 1 | 1 | - | - | - | 1 | - | - | 173 |
| 1952. | - | 1 | 1 | - | - | - | - | - | 178 |
| 1953. | 1 | 2 | - | - | - | - | - | 1 | 109 |
| 1954. | - | - | - | - | - | - | - | - | 59 |
| 1955. | - | - | - | - | - | 3 | - | - | 98 |
| 1956. | - | 1 | - | - | - | 2 | 1 | - | 70 |
| 1957. | - | 1 | - | - | - | - | - | - | 80 |
| 1958. | - | - | - | - | - | - | - | - | 53 |
| 1959. | - | 1 | - | - | - | - | - | 2 | 65 |
| 1960. | - | - | - | - | - | - | - | - | 51 |
| 1961. | - | 1 | - | - | - | - | - | - | 22 |
| UNKNOWN | - | 2 | 1 | - | - | - | - | 1 | 41 |
| TOTAL | 6 | 55 | 15 | 6 | 1 | 27 | 1 | 13 | 4,740 |

NOTE:--THE PACIFIC COAST STATES INCLUDE ALASKA, WASHINGTON, OREGON, AND CALIFORNIA.

GENERAL REVIEW

GREAT LAKES FISHING VESSELS, 1961 - BY YEAR BUILT

| YEAR | GEAR OPERATED | | | | | |
|-------|------------------------|--------------|------------|-----------|--------------------|-----------------|
| | HAUL SEINES, COMMON | OTTER TRAWLS | POUND NETS | TRAP NETS | FYKE AND HOOP NETS | GILL NETS SHOAL |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| 1916 | - | - | - | - | - | 1 |
| 1926 | - | - | 1 | - | - | - |
| 1928 | - | 1 | - | - | - | - |
| 1931 | - | - | - | 1 | - | - |
| 1932 | - | - | 1 | 2 | - | - |
| 1933 | - | - | 1 | - | - | - |
| 1934 | - | - | 1 | - | - | - |
| 1935 | - | 1 | - | 4 | - | - |
| 1936 | - | - | 2 | 2 | 1 | - |
| 1937 | - | - | 2 | - | - | - |
| 1938 | - | - | 1 | - | - | - |
| 1939 | - | 1 | - | 3 | - | - |
| 1940 | - | - | - | 1 | - | - |
| 1941 | - | - | 1 | 2 | - | - |
| 1942 | - | - | 1 | 2 | - | - |
| 1943 | - | - | - | 1 | - | - |
| 1944 | - | 1 | 1 | 2 | - | - |
| 1945 | - | 3 | 1 | 6 | - | - |
| 1946 | - | 3 | 2 | 9 | - | - |
| 1947 | 1 | 1 | 2 | 8 | - | - |
| 1948 | - | 4 | 1 | 20 | - | - |
| 1949 | - | - | 1 | 9 | - | - |
| 1950 | - | 2 | 1 | 5 | - | - |
| 1951 | - | - | - | 9 | - | - |
| 1952 | 1 | - | - | 4 | - | - |
| 1953 | - | - | - | 3 | - | - |
| 1954 | - | 1 | - | 2 | - | - |
| 1955 | - | - | - | 3 | - | - |
| 1956 | - | 1 | - | 2 | - | - |
| 1957 | - | - | - | 2 | - | - |
| 1958 | - | - | - | 2 | - | - |
| 1959 | - | 1 | - | 1 | - | - |
| TOTAL | 2 | 19 | 21 | 107 | 1 | 1 |

| YEAR | GEAR OPERATED | | | | | TOTAL, EXCLUSIVE OF DUPLICATION |
|------|-------------------------|-----------------|-------------------|-------|------------------------|---------------------------------|
| | GILL NETS, SHOAL | | | LINES | | |
| | 2-1/4 - 3-7/8 INCH MESH | 4 - 7 INCH MESH | 10 - 14 INCH MESH | TROLL | LONG OR SET WITH HOOKS | |
| 1904 | 1 | - | - | - | - | 1 |
| 1910 | 1 | - | - | - | - | 1 |
| 1911 | 1 | 1 | - | - | - | 1 |
| 1912 | 1 | - | - | - | - | 1 |
| 1913 | 1 | - | - | - | - | 1 |
| 1914 | 1 | 1 | - | - | - | 1 |
| 1915 | 1 | 1 | - | - | - | 1 |
| 1916 | 2 | 1 | - | - | - | 1 |
| 1919 | 1 | 1 | - | - | - | 2 |
| 1920 | 2 | - | - | - | - | 2 |
| 1921 | 3 | - | - | - | - | 3 |
| 1922 | 2 | - | - | - | - | 2 |
| 1923 | 1 | 1 | - | - | - | 1 |
| 1924 | 2 | 2 | - | - | - | 2 |
| 1925 | 5 | 1 | - | - | - | 5 |
| 1926 | 7 | 3 | - | - | - | 8 |
| 1927 | 4 | 1 | - | - | - | 4 |
| 1928 | 2 | 1 | - | - | - | 4 |
| 1929 | 9 | 6 | - | - | - | 9 |
| 1930 | 6 | 4 | - | - | - | 8 |
| 1931 | 6 | 4 | - | - | - | 9 |
| 1932 | 4 | 3 | - | - | - | 6 |
| 1933 | 7 | 6 | - | - | - | 7 |
| 1934 | 11 | 5 | - | - | - | 11 |
| 1935 | 17 | 6 | - | - | - | 22 |
| 1936 | 25 | 10 | - | - | - | 28 |
| 1937 | 12 | 7 | - | - | - | 14 |
| 1938 | 14 | 10 | - | - | 1 | 18 |
| 1939 | 6 | 6 | - | - | - | 11 |
| 1940 | 12 | 7 | - | - | - | 15 |
| 1941 | 6 | 4 | - | - | - | 8 |
| 1942 | 3 | 1 | - | - | - | 6 |

SEE NOTE AT END OF TABLE.

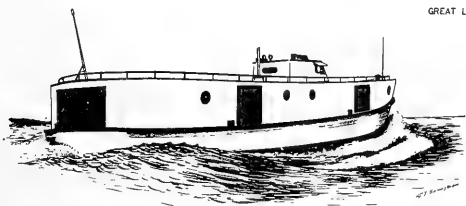
(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

GREAT LAKES FISHING VESSELS, 1961 - BY YEAR BUILT - Continued

| YEAR | GEAR OPERATED | | | | | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|-----------------|----------------------------|--------------------|----------------------|--------|---------------------------|--|
| | GILL NETS, SHOAL | | | LINES | | |
| | 2-1/4 - 3-7/8 INCH MESH | 4 - 7 INCH MESH | 10 - 14 INCH MESH | TROLL | LONG OR SET WITH HOOKS | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| 1943. | 8 | 5 | - | - | - | 8 |
| 1944. | 11 | 6 | - | - | - | 15 |
| 1945. | 22 | 14 | - | - | - | 32 |
| 1946. | 32 | 20 | - | - | - | 44 |
| 1947. | 16 | 8 | 1 | - | - | 28 |
| 1948. | 19 | 12 | - | - | - | 37 |
| 1949. | 5 | 4 | - | - | - | 14 |
| 1950. | 9 | 6 | - | 1 | - | 16 |
| 1951. | 3 | 3 | - | - | - | 13 |
| 1952. | 3 | 3 | - | - | - | 7 |
| 1953. | 2 | 2 | - | - | - | 5 |
| 1954. | 1 | - | - | - | - | 4 |
| 1955. | 2 | 2 | - | 1 | - | 6 |
| 1956. | - | 1 | - | - | - | 3 |
| 1957. | 1 | - | - | - | - | 3 |
| 1958. | 9 | 2 | - | - | - | 11 |
| 1959. | 6 | 2 | - | - | - | 8 |
| 1960. | 3 | 2 | - | - | - | 3 |
| TOTAL | 331 | 185 | 1 | 2 | 1 | 469 |

NOTE:--THE GREAT LAKES STATES INCLUDE NEW YORK, PENNSYLVANIA, OHIO, MICHIGAN, INDIANA, ILLINOIS, WISCONSIN, AND MINNESOTA.



GREAT LAKES TUG

HAWAII FISHING VESSELS, 1961 - BY YEAR BUILT

| YEAR | TOTAL, EXCLUSIVE OF DUPLI- CATION | YEAR | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|---------------|--|-----------------|--|
| | NUMBER | | NUMBER |
| 1926. | 3 | 1943. | 1 |
| 1927. | 1 | 1944. | 1 |
| 1928. | 5 | 1945. | 13 |
| 1929. | 3 | 1947. | 17 |
| 1930. | 2 | 1948. | 1 |
| 1931. | 1 | 1949. | 2 |
| 1935. | 1 | 1950. | 1 |
| 1937. | 1 | 1953. | 3 |
| 1938. | 4 | 1955. | 1 |
| 1940. | 2 | 1961. | 1 |
| 1941. | 1 | | |
| | | TOTAL | 65 |

SECTION 2 - NEW ENGLAND FISHERIES

The yield of the commercial fisheries of the New England States (Maine, New Hampshire, Massachusetts, Rhode Island, and Connecticut) in 1961 totaled 760 million pounds valued at nearly \$61 million to the fishermen. This was a decrease of 92 million pounds from 1960 and the lowest annual production since 1944. Despite the relatively large (11 percent) decrease in landings, the value dropped only 1 percent. The lower landings were caused by a sharp decline in the catch of low-priced sea herring at Maine ports.

Rhode Island landings were heavier in 1961 than in 1960 due to larger landings used for industrial products. Landings in other States were lower than in the previous year. Massachusetts accounted for 62 percent of the New England landings in 1961, followed by Maine (26 percent), and Rhode Island (11 percent), Connecticut and New Hampshire accounted for the remaining 1 percent. Of the total amount paid to fishermen, Massachusetts accounted for 61 percent, followed by Maine (31 percent), Rhode Island (5 percent), Connecticut (2 percent), and New Hampshire (1 percent).

The major species contributing to the decline in total landings at New England ports was sea herring. The 1961 catch of only 58 million pounds was 97 million pounds less than the 155 million pounds landed in 1960. Landings of menhaden, ocean perch, whiting, and lobsters were also lighter than in the previous year. Cod, yellowtail flounder, haddock, unclassified fish for reduction and animal food, sea scallops, and Irish moss were taken in greater volume than in 1960.

New England weather was severe at times. Conditions early in 1961 were hazardous due to blizzards and ice formations. Fishermen reported that wind velocities and heavy seas were the worst in many years. Temperatures in February were the lowest in 20 years. During the fall, hurricane "Esther" threatened. The fleet was given advance warning, and all craft were in port as the storm passed by. Damage was limited to loss of lobster gear and fishing time.

The number of fishing vessels of 5 net tons or over (738 vessels) operating from New England ports in 1961 showed a decline of 4 vessels. There were 197 fewer craft in the boat and shore fishery. Fourteen vessels and seven lives were lost at sea during 1961. Five new vessels were added to the New Bedford fleet. A number of older vessels entered the fleet for the first time and helped to compensate for some of the losses. The Fishery Loan Fund, authorized by the Fish and Wildlife Service Act of 1956, received 25 applications for loans from New England vessel and boat owners in 1961.

The total value of fishery products manufactured in New England was \$108 million, down \$9 million from 1960. This decrease was due to the poor Maine sardine production. The pack fell from nearly 2 million cases valued at \$17 million in 1960, to only 754,000 cases valued at \$7.6 million in 1961.

Landings of groundfish (cod, haddock, hake, pollock, cusk, and ocean perch), amounting to 336 million pounds, were 3 percent above those of the previous year. Haddock landings (133.5 million pounds) were 15 million pounds larger than in 1960, and cod (42 million pounds) was up 7 million pounds. The catch of ocean perch fell from 141 million pounds in 1960 to 132 million pounds in 1961. Imports continued to provide an ever-increasing percentage of the United States supply of groundfish fillets. Imports accounted for 68 percent of the total 288 million pounds. In 1951, only 37 percent of the supply of groundfish fillets was derived from imports.

Ocean perch landings were the lightest since 1945. Landings at Maine ports (77 million pounds) were about the same as in 1960. The catch landed in Massachusetts (55 million pounds) was 8 million pounds less than in 1960 and the lowest since 1936. The smaller ocean perch catch followed a 10-year trend of decreasing landings. The decline, due in part to a lack of fish on local grounds, has been principally caused by a lack of efficient vessels to prosecute the fishery. The last new vessel entered the Massachusetts ocean perch fishery in 1952.

Haddock landings totaled 133.5 million pounds, the best year since 1956 and an increase of 13 percent over 1960. The number of vessels operating in this fishery declined, and those remaining made fewer, but more productive trips. The greater percentage of the catch was made up of scrod-size fish from the 1958 year class.

A report, Circular 121, entitled The Groundfish Industries of New England and Canada was issued by the Bureau of Commercial Fisheries in 1961. It is a comparative economic analyses made by the Bureau of Business Research of Boston College, under contract. Based on the findings and analyses presented in the report, the following conclusions were drawn:

(1) Four basic differences exist between the fishery industries of the New England and Atlantic Provinces. These four are geographic locations, structures, organizations, and the economic framework within which the two industries operate. They account for the competitive advantage enjoyed by Canada.

(2) The Canadian industry, which engages in a diversified fishery, is less affected by declines in abundance of a particular species than is the New England industry, which is composed of groups of specialized fisheries, each heavily dependent on the abundance of a particular species.

(3) The Canadian subsidy program directly benefits only the small trawler operators and not the large integrated firms which are the chief competitors of the New England industry. These firms benefit from the subsidy only to the extent that it enables them to buy the catch of the subsidized vessels and thus avoid incurring the overhead costs of large trawlers which they might add to their own fleets.

(4) Foreign competition is an important source of the problems of the New England industry. Nevertheless, the industry's lack of ability to adjust to diminished but relatively stable resources is also important.

(5) To the extent practicable, the New England fleet should seek to diversify its catch and lessen the dangers of dependence on one species.

(6) The Boston trawler fleet includes a number of marginal boats engaged in uneconomic overfishing. Because of the limited resources which the Boston fleet can now effectively harvest, these vessels will be eliminated by the process of attrition which has been taking place since 1948. Thus, contraction rather than expansion is postulated for the Boston trawler fleet.

(7) Not only contraction, but also concentration is postulated for the Boston industry; i.e., the Boston fleet may eventually be characterized by a small number of operators, each owning many boats. In any event, only in this way can the economics of a scale necessary to efficient operation in this high-cost industry be accomplished.

(8) The ocean perch fleet in Gloucester and Maine also faces contraction because of the decline in productivity on the more distant ocean perch grounds.

Yellowtail flounder landings in 1961 (37 million pounds) were 7 million pounds or 24 percent larger than in 1960. It was one of the best years on record for this species. Age and growth studies showed that the increased catch was due to a strong 1958 year class that furnished most of the catch.



NEW ENGLAND FISHERIES

The failure of the sea herring (sardine) fishery brought hardship to Maine fishermen and fishing communities. The catch of 54.5 million pounds was the lowest since 1940 and approximately one-third of the amount landed in 1960. The total canned pack of sardines amounted to only 754,000 cases--down 62 percent from 1960. In an effort to help the industry, a temporary measure was passed by the Maine legislature ending all seasons and placing the fishery on a year-round basis until January 1, 1963. Imports of sea herring from Canada also declined. They amounted to only 43.9 million pounds compared with 74.3 million pounds in 1960. Imports of canned sardines packed in oil were up 31 percent while non-oil packs were up 138 percent. While this alleviated the consumer shortage resulting from the poor domestic season, it also caused fears about the possible loss of markets to products of foreign countries.

The Massachusetts whiting fishery faced a number of problems in 1961, and landings fell to 74 million pounds--a decline of 13 million pounds. In other States, landings increased. The start of the Massachusetts season at Gloucester was delayed until June by a price disagreement. Landings in June totaled 7 million pounds. In July, they jumped to 18 million pounds--a new high for any one month. Faced with a deluge of fish, processors began to worry about heavy inventories, and the price paid to fishermen dropped. Although the fleet refused to fish for a short time and several large vessels withdrew from the fishery, most craft resumed fishing at a reduced price.

Total landings of fish for industrial purposes equaled the low catch of 1960 and continued to reflect the oversupply of industrial products on the world's market. Prior to the decline in world meal and oil prices in 1959, the fishery was an important segment of the New England Fishery. To the small otter trawl fishermen, it presented an opportunity to turn a slight loss for the year into a profitable operation. The ruling by United States Food and Drug Administration, which prevented the use for human consumption of so-called fish protein concentrate, made from whole fish came as a blow to some producers who had plans to convert to this type of operation.

The catch of menhaden (26 million pounds) was 17 million pounds less than in 1960. Due to a shortage of fish north of Cape Cod, landings in Massachusetts amounted to only 3.4 million pounds compared with 18.0 million pounds the previous year.

The Provincetown tuna purse seiner Silver Mink was joined in the 1961 season by a new steel vessel built in Warren, Rhode Island. The F. Nelson Blount is believed to be the first tuna seiner ever to be built on the Atlantic Coast of the United States. The 1961 catch of bluefin tuna in New England was 2.4 million pounds, nearly all of which was taken by these two seiners. The longline fishery was disappointing. Tuna did not appear to take bait as readily as in other years, and the presence of unusually large numbers of grayfish interfered with the use of the longlines. Hope continued that a profitable fishery for tuna could be developed in New England.

While the shellfisheries of New England accounted for only 9 percent of the volume landed in 1961, they accounted for nearly half (47 percent) of the total value paid to fishermen. The value of northern lobsters and sea scallop meats amounted to \$23 million or 79 percent of the total value of the shellfish harvest. The 1961 production of lobsters (26 million pounds) was 3 million pounds less than in the previous year. However, the value of the catch (\$14 million) was the second highest on record.

A record catch of sea scallops was landed in New England in 1961, when 24 million pounds of meats, valued at \$9 million, were recorded. The amount paid to fishermen (\$9 million) was less than the record \$9.8 million paid in 1959 for 20 million pounds of sea scallop meats. Sea scallop imports from Canada in 1961 amounted to 8.6 million pounds--2 million pounds higher than for 1960. As a conservation measure, many sea scallopers have now adopted the use of 4-inch rings instead of the 3-inch formerly used in sea scallop dredges. In addition to conserving small stock, the larger rings result in a cleaner catch of the shellfish.

The Massachusetts Division of Marine Fisheries set up regulations concerning sanitary rules for sea scallop vessels, boats, and processing plants. Every craft and plant must be inspected and certified. The regulations will go into effect on January 1, 1962. Separate rules for bay scallopers will become effective on October 1, 1962.

Large numbers of Russian and some Polish vessels fished Georges Bank in 1961, and their presence caused concern. They were first reported in this area in 1960. Up to 100 vessels were reported at one time, including stern trawlers, gill netters and motherships. Apparently, the fleet fished mostly for herring.

The first application for benefits under the Fishery Vessel Construction Differential Subsidy program was filed by a New Bedford fisherman in April 1961. The Act was approved on June 12, 1960 to provide financial assistance in smoothing out differences in cost between foreign and domestic construction of fishing vessels. Under this Act, the Secretary of the Interior is authorized to pay up to one-third of the cost of construction of a new fishing vessel providing the proposed vessel, owner, and the fishery in which it will engage meet certain requirements. At the present time, the New England groundfish industry is the only fishery meeting the requirements of the program.

The Area Redevelopment Act was signed into law on May 1, 1961. In November, financing was approved for a study by the New Bedford Institute of Technology of the sea scallop and flounder industries. The Institute was authorized to spend up to \$100,000 in a market research study and a survey of present processing facilities. The purpose of this study is to provide additional jobs in this depressed area.

The Bureau's new aquarium building at Woods Hole was completed in April. The acquisition of this new facility was of twofold importance, for it provided, once again, a public attraction which had been missing since 1954, and it furnished the laboratory a much-needed research adjunct. The aquarium was opened to the public on July 1, 1961.

During the year, voluntary grade standards, developed by the Bureau, became effective for frozen fried breaded scallops, and proposed standards were developed for frozen sole and flounder fillets. Product standards had previously been established for frozen fish sticks, fish blocks, haddock fillets, cod fillets, ocean perch fillets, and breaded portions.

Construction on the fishery research vessel Albatross IV, which will replace the former Albatross III began during the year. This vessel is being constructed under the national oceanographic program and will cost \$1.8 million. The vessel will be 187 feet long with a beam of 33 feet. There will be berthing space for a 25-man crew and 16 scientists. The vessel is the first stern trawler to be built in the United States. It is designed for use in fisheries and oceanographic research in any navigable waters in the world.

The Massachusetts frozen food code went into effect early in the year. The most important provision with respect to the fisheries is that a temperature of 0° F. must be maintained throughout the distribution chain.

The Massachusetts Advisory Commission on Marine Fisheries submitted a report of the State's marine fishery programs and problems to the Governor in January 1961. The report, based on a comprehensive study, included 16 specific recommendations. The major ones were: (1) The Director of Marine Fisheries be given increased authority to regulate the fisheries, (2) An advisory commission be made permanent, and (3) an accelerated program of research management be authorized.



NEW ENGLAND FISHERIES

The University of Rhode Island acquired its first oceanographic research vessel in 1961. The vessel (a 17-year-old, 180-foot former Army freighter) had been in mothballs at Rio Vista, California. The vessel will be fitted to carry on research in physical, chemical, geological, and biological oceanography. It will have quarters for 21 scientists and a crew of 15 men.

The increased activity of skin diving enthusiasts, particularly in the lobster fishery, continued to cause concern among other commercial fishermen. In 1961, the Maine legislature passed a law prohibiting the taking of lobsters by skin divers. New Hampshire already has such legislation. In an effort to counteract unfavorable comments on alleged activities of skin divers, several of the diving organizations assisted in locating and salvaging gear lost by commercial fishermen. They also contributed their time and resources to scientific research under government leadership.

Legislation was enacted by Maine in 1961 for the purpose of preventing the Gloucester fleet of whiting vessels from fishing in Casco Bay. This was accomplished by restricting vessel size and gear size to be used in the area. The denial of this area to the Gloucester vessels created only slight inconvenience and had little bearing on the overall catch. Maine vessels made better catches due to the elimination of some competition.

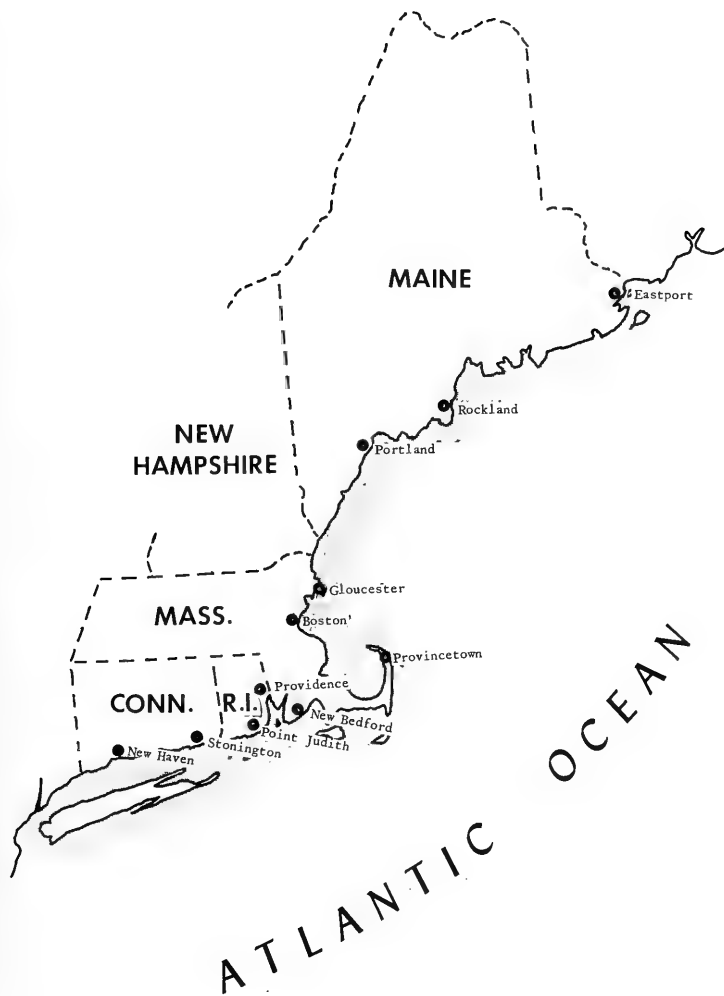
A law passed by the Canadian government had a direct effect upon the New England industry. A 4-inch minimum length law for sea herring, similar to legislation in Maine, was placed in effect. Previously, fish smaller than 4 inches were caught in Canada, exported, and packed in Maine.

Labor-management relations were fairly amicable along the New England waterfront in 1961, and several new contracts between labor and management were negotiated. The most serious dispute occurred in Gloucester when a 71-day impasse between stevedores and their employers blocked imports of frozen fish at this port. Since the cargo carriers were diverted to other ports, no work stoppages resulted at the fish stick and portion plants which are so dependent upon this source of raw supply. A 5-day work stoppage in New Bedford ended in the signing of a 3-year contract by shore workers and processors. New Bedford fishermen and vessel owners also reached agreement on a 3-year contract. New working agreements were also reached by shore workers and employees in Gloucester and on Atlantic Avenue in Boston. Wage increases for the most part were moderate.

The Bureau acknowledges the assistance of the following organizations in the collection of data appearing in this section: The Maine Department of Sea and Shore Fisheries; the New Hampshire Fish and Game Department; the Massachusetts Department of Natural Resources, Division of Marine Fisheries; the Rhode Island Department of Agriculture and Conservation, Division of Fish and Game; the Connecticut State Board of Fisheries and Game; and the Connecticut State Shell Fish Commission.

The following tables contain summarized and detailed information on the 1961 operating units and catch of fish and shellfish in the New England States. Condensed summary data on the operating units and catch by States of the New England area, appearing on the following pages, have been previously published in Current Fishery Statistics No. 3010. Additional data on many aspects of the New England fisheries may be found in the Maine, Massachusetts, Rhode Island monthly and annual landing bulletins released by the Branch of Statistics and in daily, monthly, and annual reports published by the Bureau's Fishery Market News Service, Commonwealth Pier, Boston, Massachusetts.





NEW ENGLAND FISHERIES

SECTIONAL SUMMARIES

SUMMARY OF CATCH, 1961

(MILLIONS OF POUNDS AND MILLIONS OF DOLLARS)

| STATE | FISH | | SHELLFISH, ETC. | | TOTAL | |
|-------------------------|----------|-------|-----------------|-------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| MAINE | 164 | 5 | 34 | 14 | 198 | 19 |
| NEW HAMPSHIRE | (1) | (1) | 1 | 1 | 1 | 1 |
| MASSACHUSETTS | 440 | 25 | 31 | 12 | 471 | 37 |
| RHODE ISLAND | 80 | 2 | 4 | 1 | 84 | 3 |
| CONNECTICUT | 5 | (1) | 1 | 1 | 6 | 1 |
| TOTAL | 689 | 32 | 71 | 29 | 760 | 61 |

1/ LESS THAN 500,000 POUNDS OR \$500,000.

SUMMARY OF OPERATING UNITS, 1961

| ITEM | MAINE | NEW HAMPSHIRE | MASSACHUSETTS | RHODE ISLAND | CONNECTICUT | TOTAL, EXCLUSIVE OF DUPLICATION |
|------------------------------------|---------|---------------|---------------|--------------|-------------|---------------------------------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | |
| ON VESSELS | 598 | - | 3,426 | 380 | 143 | 4,231 |
| ON BOATS AND SHORE: | | | | | | |
| REGULAR | 5,402 | 84 | 859 | 595 | 104 | 7,044 |
| CASUAL | 3,345 | 251 | 5,603 | 623 | 630 | 10,462 |
| TOTAL | 9,345 | 345 | 9,888 | 1,598 | 877 | 21,737 |
| VESSELS, MOTOR | 150 | - | 497 | 101 | 55 | 738 |
| GROSS TONNAGE | 8,482 | - | 34,914 | 2,936 | 1,480 | 44,242 |
| BOATS: | | | | | | |
| MOTOR | 6,620 | 176 | 2,646 | 1,135 | 578 | 11,155 |
| OTHER | 279 | 9 | 350 | 37 | 24 | 709 |
| GEAR: | | | | | | |
| HAUL SEINES, COMMON | 1 | - | 6 | 4 | 8 | 19 |
| LENGTH, YARDS | 100 | - | 209 | 883 | 744 | 1,936 |
| STOP SEINES | 114 | - | - | - | - | 114 |
| LENGTH, YARDS | 51,300 | - | - | - | - | 51,300 |
| PURSE SEINES: | | | | | | |
| HERRING | 14 | - | - | - | - | 14 |
| LENGTH, YARDS | 4,900 | - | - | - | - | 4,900 |
| MACKEREL | 2 | - | - | 2 | - | 4 |
| LENGTH, YARDS | 700 | - | - | 600 | - | 1,300 |
| MENHADEN | - | - | 5 | 6 | - | 7 |
| LENGTH, YARDS | - | - | 1,875 | 1,950 | - | 2,550 |
| TUNA | - | - | 2 | - | - | 2 |
| LENGTH, YARDS | - | - | 900 | - | - | 900 |
| OTHER | - | - | 5 | - | - | 5 |
| LENGTH, YARDS | - | - | 2,600 | - | - | 2,600 |
| BAG NETS | 5 | 4 | - | - | - | 9 |
| OTTER TRAWLS: | | | | | | |
| FISH | 115 | - | 410 | 84 | 70 | 631 |
| YARDS AT MOUTH | 2,634 | - | 10,901 | 1,973 | 1,299 | 15,661 |
| SHRIMP | 10 | - | - | - | - | 10 |
| YARDS AT MOUTH | 200 | - | - | - | - | 200 |
| WEIRS | 116 | 9 | - | - | - | 125 |
| FOUND NETS, FISH | - | - | 58 | - | - | 58 |
| FLOATING TRAPS | 9 | - | 25 | 14 | - | 48 |
| FYKE AND HOOP NETS, FISH | 3 | - | - | 12 | 8 | 23 |
| POTS AND TRAPS: | | | | | | |
| CONCH | - | - | 95 | 500 | 278 | 873 |
| CRAB | - | 90 | 152 | 1,320 | - | 1,562 |
| EEL | - | - | 295 | 396 | 516 | 1,207 |
| LOBSTER | 760,413 | 16,250 | 90,463 | 9,496 | 7,913 | 884,535 |
| BOX TRAPS | 10 | - | - | - | - | 10 |
| GILL NETS: | | | | | | |
| ANCHOR, SET OR STAKE | 8 | - | 24 | 1 | 10 | 41 |
| SQUARE YARDS | 18,180 | - | 143,640 | 486 | 1,913 | 145,219 |
| DRIIFT: | | | | | | |
| SHAD | - | - | - | - | 60 | 60 |
| SQUARE YARDS | - | - | - | - | 93,993 | 93,993 |
| OTHER | - | 1 | 20 | - | 7 | 28 |
| SQUARE YARDS | - | 2,500 | 103,000 | - | 1,309 | 106,809 |
| LINES: | | | | | | |
| HAND | 212 | 350 | 1,943 | 149 | 43 | 2,707 |
| HOOKS | 246 | 720 | 2,088 | 258 | 79 | 3,401 |

(CONTINUED ON NEXT PAGE)

NEW ENGLAND FISHERIES

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SUMMARY OF OPERATING UNITS, 1961 - Continued

| ITEM | MAINE | NEW HAMPSHIRE | MASSACHUSETTS | RHODE ISLAND | CONNECTICUT | TOTAL, EXCLUSIVE OF DUPLICATION |
|----------------------------------|---------|---------------|---------------|--------------|-------------|---------------------------------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| GEAR - CONTINUED: | | | | | | |
| LINES - CONTINUED: | | | | | | |
| TROLL | - | - | 9 | 17 | - | 26 |
| HOOKS | - | - | 9 | 30 | - | 39 |
| LONG OR SET WITH HOOKS | 92 | 4 | 86 | 10 | - | 194 |
| HOOKS | 353,000 | 6,500 | 262,280 | 7,044 | - | 628,824 |
| DIP NETS, COMMON | 88 | - | 162 | - | 397 | 647 |
| LIFT NETS | - | - | 1 | - | - | 1 |
| HARPOONS: | | | | | | |
| SWORDFISH | - | - | 79 | 19 | 2 | 99 |
| OTHER | 35 | - | 25 | - | - | 60 |
| SPEARS | - | - | 7 | 2 | 1 | 10 |
| DREDGES: | | | | | | |
| CLAM | - | - | 31 | 14 | 6 | 51 |
| YARDS AT MOUTH | - | - | 25 | 14 | 6 | 46 |
| MUSSEL | - | - | 10 | 1 | - | 11 |
| YARDS AT MOUTH | - | - | 9 | 2 | - | 11 |
| OYSTER, COMMON | 2 | - | 3 | - | 21 | 26 |
| YARDS AT MOUTH | 2 | - | 3 | - | 26 | 31 |
| SCALLOP | 55 | - | 1,459 | 42 | - | 1,542 |
| YARDS AT MOUTH | 99 | - | 1,563 | 33 | - | 1,646 |
| TONGS: | | | | | | |
| OYSTER | - | - | 22 | 6 | 11 | 39 |
| OTHER | - | - | 157 | 946 | 6 | 1,109 |
| RAKES: | | | | | | |
| OYSTER | - | - | 9 | - | - | 9 |
| OTHER | 250 | - | 695 | 236 | - | 1,181 |
| HOES | 2,301 | 45 | 902 | 7 | 6 | 3,261 |
| FORKS | - | - | 89 | - | - | 89 |
| DIVING OUTFITS | - | - | 536 | - | - | 536 |

CATCH BY STATES, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | MAINE | | NEW HAMPSHIRE | | MASSACHUSETTS | |
|---------------------------|----------|-------|---------------|-------|---------------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH | | | | | | |
| ALEWIVES | 1,667 | 25 | 100 | 1 | 20,838 | 193 |
| ANCHOVIES | - | - | - | - | 52 | 5 |
| ANGLERFISH | - | - | - | - | 9 | (1) |
| BLUEFISH | - | - | - | - | 18 | 3 |
| BONITO | - | - | - | - | 17 | 2 |
| BUTTERFISH | 7 | 1 | - | - | 1,116 | 171 |
| COD | 2,507 | 124 | 30 | 2 | 38,166 | 2,361 |
| CUSK | 600 | 31 | 8 | (1) | 1,297 | 70 |
| EELS: | | | | | | |
| COMMON | 32 | 8 | 5 | 1 | 20 | 4 |
| CONGER | - | - | - | - | (1) | (1) |
| FLOUNDER: | | | | | | |
| BLACKBACK | 158 | 7 | - | - | 11,934 | 1,355 |
| DAB | 689 | 33 | - | - | 2,792 | 217 |
| FLUKE | - | - | - | - | 5,240 | 932 |
| GRAY SOLE | 570 | 58 | - | - | 1,987 | 270 |
| LEMON SOLE | (1) | (1) | - | - | 2,408 | 534 |
| YELLOWTAIL | 66 | 4 | - | - | 34,669 | 2,956 |
| TOTAL FLOWNDERS | 1,483 | 102 | - | - | 59,030 | 6,264 |
| HADDOCK | 2,940 | 227 | 35 | 3 | 130,478 | 9,666 |
| HAKE: | | | | | | |
| RED | - | - | - | - | 7,146 | 86 |
| WHITE | 2,731 | 95 | (1) | (1) | 2,363 | 116 |
| HALIBUT | 69 | 21 | 2 | 1 | 2,144 | 58 |
| HERRING, SEA | 54,463 | 1,036 | - | - | 3,122 | 49 |
| LAUNCE | - | - | - | - | 194 | 11 |
| MACKEREL | 153 | 10 | 5 | 1 | 1,924 | 284 |
| MENHADEN | - | - | - | - | 3,363 | 30 |
| OCEAN PERCH | 77,350 | 2,942 | - | - | 54,712 | 2,172 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

NEW ENGLAND FISHERIES

CATCH BY STATES, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | MAINE | | NEW HAMPSHIRE | | MASSACHUSETTS | |
|--|----------|--------|---------------|-------|---------------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH - CONTINUED | | | | | | |
| POLLOCK | 3,206 | 103 | 5 | (1) | 18,171 | 691 |
| SALMON | (1) | (1) | - | - | (1) | (1) |
| SCUP OR PORGY | - | - | - | - | 1,089 | 45 |
| SEA BASS | - | - | - | - | 51 | 7 |
| SHAD | - | - | - | - | 80 | 1 |
| SHARKS: | | | | | | |
| GRAYFISH | 966 | 6 | - | - | (1) | (1) |
| UNCLASSIFIED | 16 | 1 | - | - | 17 | 1 |
| TOTAL SHARKS | 982 | 7 | - | - | 17 | 1 |
| SKATES | - | - | - | - | 39 | 1 |
| SMILT | 79 | 22 | 59 | 19 | - | - |
| STRIPED BASS | (1) | (1) | - | - | 210 | 37 |
| STURGEON | 1 | 2 | - | - | 5 | (1) |
| SWORDFISH | 6 | - | - | - | 694 | 288 |
| TAUTOG | - | - | - | - | 19 | 1 |
| TILEFISH | - | - | - | - | 357 | 37 |
| TUNA, BLUEFIN | 105 | 9 | - | - | 2,210 | 116 |
| WHITING | 14,147 | 237 | - | - | 74,010 | 1,616 |
| WOLFFISH | 49 | 2 | (1) | (1) | 594 | 37 |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | 3 | (1) | - | - | 5,912 | 369 |
| BAIT, REDUCTION, AND ANIMAL FOOD | 1,462 | 9 | - | - | 12,710 | 92 |
| TOTAL FISH | 164,042 | 5,013 | 249 | 28 | 440,247 | 24,864 |
| SHELLFISH, ETC. | | | | | | |
| CRABS: | | | | | | |
| GREEN | - | - | 39 | 2 | 58 | 6 |
| ROCK | 1,579 | 58 | 25 | 1 | 83 | 7 |
| TOTAL CRABS | 1,579 | 58 | 64 | 3 | 141 | 13 |
| LOBSTERS, NORTHERN | 20,918 | 11,120 | 823 | 387 | 3,303 | 1,763 |
| SHRIMP | 67 | 14 | - | - | 1 | (1) |
| CLAMS: | | | | | | |
| HARD: | | | | | | |
| PUBLIC | 13 | 7 | - | - | 1,651 | 939 |
| PRIVATE | - | - | - | - | 13 | 13 |
| RAZOR | - | - | - | - | 25 | 8 |
| SOFT, PUBLIC | 1,844 | 794 | - | - | 653 | 451 |
| SURF | - | - | - | - | 12 | 2 |
| TOTAL CLAMS | 1,857 | 601 | - | - | 2,354 | 1,413 |
| CONCHS | - | - | - | - | 9 | 1 |
| MUSSELS, SEA | 2 | (1) | - | - | 543 | 41 |
| OYSTERS, MARKET: | | | | | | |
| PUBLIC: | | | | | | |
| SPRING | 3 | 2 | - | - | 20 | 18 |
| FALL | - | - | - | - | 23 | 21 |
| PRIVATE: | | | | | | |
| SPRING | - | - | - | - | 4 | 6 |
| FALL | - | - | - | - | 37 | 55 |
| TOTAL OYSTERS | 3 | 2 | - | - | 84 | 100 |
| PERIWINKLES AND COCKLES | 34 | 10 | - | - | - | - |
| SCALLOPS: | | | | | | |
| SEA | - | - | - | - | 573 | 563 |
| SEA URCHINS | 2,740 | 1,025 | - | - | 21,035 | 8,010 |
| SQUID | 74 | 2 | - | - | - | - |
| IRISH MOSS | 5,417 | 81 | - | - | 868 | 65 |
| BLOODWORMS | 594 | 516 | 2 | 1 | 1,578 | 33 |
| SANDWORMS | 643 | 387 | 8 | 7 | 4 | 4 |
| TOTAL SHELLFISH, ETC. | 33,929 | 14,016 | 697 | 398 | 30,527 | 12,036 |
| GRAND TOTAL | 197,970 | 19,029 | 1,146 | 426 | 470,774 | 36,900 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

NEW ENGLAND FISHERIES

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CATCH BY STATES, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | RHODE ISLAND | | CONNECTICUT | | TOTAL | |
|--|--------------|-------|-------------|-------|----------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| ALEWIVES | - | - | 6 | (1) | 22,611 | 219 |
| ANCHOVIES | 19 | 2 | - | - | 71 | 7 |
| ANGLERFISH | (1) | (1) | - | - | 9 | (1) |
| BLUEFISH | 49 | 7 | 11 | 3 | 78 | 13 |
| BONITO | 29 | 4 | - | - | 46 | 6 |
| BUTTERFISH | 2,947 | 252 | 89 | 8 | 4,159 | 432 |
| CARP | - | - | 3 | (1) | 3 | (1) |
| COD | 1,066 | 69 | 400 | 25 | 42,169 | 2,581 |
| CUNNER | - | - | (1) | (1) | (1) | (1) |
| CUSK | - | - | - | - | 1,905 | 101 |
| EELS: | | | | | | |
| COMMON | 45 | 9 | 13 | - | 115 | 24 |
| CONGER | 5 | (1) | - | - | 5 | (1) |
| FLOUNDERS: | | | | | | |
| BLACKBACK | 2,026 | 129 | 980 | 63 | 15,100 | 1,554 |
| DAB | 46 | 5 | 6 | 1 | 3,533 | 256 |
| FLUKE | 946 | 178 | 155 | 29 | 6,343 | 1,139 |
| GRAY SOLE | 16 | 2 | 8 | - | 2,593 | 331 |
| LEMON SOLE | 8 | 1 | (1) | (1) | - | - |
| YELLOWTAIL | 2,336 | 175 | 107 | 8 | 37,180 | 3,143 |
| TOTAL FLOUNDERS | 5,386 | 490 | 1,256 | 102 | 67,155 | 6,958 |
| HADDOCK | 64 | 4 | 19 | 1 | 133,536 | 9,901 |
| HAKE: | | | | | | |
| RED | 51 | 1 | 30 | 1 | 7,227 | 88 |
| WHITE | 10 | (1) | - | - | 5,104 | 211 |
| HALIBUT | - | - | - | - | 285 | 80 |
| HERRING, SEA | 188 | 8 | 83 | 3 | 57,856 | 1,096 |
| KING MACKEREL | 2 | (1) | - | - | 2 | (1) |
| KING WHITING OR "KINGFISH" | 1 | (1) | - | - | 1 | (1) |
| LAMPREY | - | - | 1 | (1) | 1 | (1) |
| LAUNCE | - | - | - | - | 194 | 11 |
| MACKEREL | 171 | 27 | 23 | 5 | 2,276 | 327 |
| MEMHADEN | 22,636 | 193 | 12 | (1) | 26,011 | 223 |
| OCEAN PERCH | - | - | - | - | 132,062 | 5,114 |
| POLLOCK | 14 | 1 | 3 | (1) | 21,399 | 795 |
| SALMON | - | - | - | - | (1) | (1) |
| SCUP OR PORGY | 7,105 | 345 | 992 | 69 | 9,186 | 459 |
| SEA BASS | 170 | 36 | 42 | 8 | 263 | 51 |
| SEA ROBIN | 191 | 3 | 22 | 1 | 213 | 4 |
| SEA TROUT OR WEAKFISH, GRAY | 1 | (1) | 2 | (1) | 3 | (1) |
| SHAD | 4 | (1) | 463 | 79 | 547 | 80 |
| SHARKS: | | | | | | |
| GRAYFISH | (1) | (1) | 4 | (1) | 970 | 6 |
| UNCLASSIFIED | 1 | (1) | 5 | (1) | 39 | 2 |
| TOTAL SHARKS | 1 | (1) | 9 | (1) | 1,009 | 8 |
| SILVERSIDES | - | - | 1 | (1) | 1 | (1) |
| SKATES | 2 | (1) | 3 | (1) | 49 | 1 |
| SMELT | - | - | - | - | 139 | 41 |
| SPANISH MACKEREL | (1) | (1) | - | - | (1) | (1) |
| STRIPED BASS | 167 | 26 | 20 | 4 | 397 | 67 |
| STURGEON | 1 | (1) | 9 | 1 | 16 | 1 |
| SUCKERS | - | - | 5 | (1) | 5 | (1) |
| SWORDFISH | 126 | 49 | 1 | 1 | 829 | 320 |
| TAUTOG | 51 | 2 | 24 | 1 | 94 | 4 |
| TILEFISH | 265 | 24 | (1) | (1) | 642 | 61 |
| TUNA, BLUEFIN | 36 | 6 | - | - | 2,353 | 131 |
| WHITE PERCH | 8 | 1 | - | - | 8 | 1 |
| WHITING | 5,021 | 124 | 767 | 19 | 93,945 | 1,996 |
| WOLFFISH | - | - | - | - | 643 | 39 |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | 100 | 10 | 29 | 2 | 6,044 | 381 |
| BAIT, REDUCTION, AND ANIMAL FOOD | 34,006 | 164 | 567 | 7 | 48,745 | 272 |
| TOTAL FISH | 79,952 | 1,657 | 4,906 | 342 | 689,406 | 32,104 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

NEW ENGLAND FISHERIES

CATCH BY STATES, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | RHODE ISLAND | | CONNECTICUT | | TOTAL | |
|-----------------------------------|--------------|-------|-------------|-------|----------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| SHELLFISH, ETC. | | | | | | |
| CRABS: | | | | | | |
| BLUE, HARD | - | - | 4 | 1 | 4 | 1 |
| GREEN | 29 | 3 | - | - | 126 | 11 |
| ROCK | 213 | 22 | - | - | 1,900 | 88 |
| TOTAL CRABS | 242 | 25 | 4 | 1 | 2,030 | 100 |
| LOBSTERS, NORTHERN | 680 | 367 | 207 | 130 | 25,931 | 13,767 |
| SHRIMP | - | - | - | - | 68 | 14 |
| CLAMS: | | | | | | |
| HARD: | | | | | | |
| PUBLIC | 2,608 | 992 | 420 | 176 | 4,692 | 2,114 |
| PRIVATE | - | - | - | - | 13 | 13 |
| OCEAN QUAHOG | 124 | 12 | - | - | 124 | 12 |
| RAZOR | - | - | - | - | 25 | 8 |
| SOFT, PUBLIC | 7 | 4 | (1) | (1) | 2,504 | 1,249 |
| SURF | - | - | - | - | 12 | 2 |
| TOTAL CLAMS | 2,739 | 1,008 | 420 | 176 | 7,370 | 3,398 |
| CONCHS | 43 | 9 | 65 | 10 | 117 | 20 |
| MUSSELS, SEA | 70 | 7 | - | - | 615 | 48 |
| OYSTERS, MARKET: | | | | | | |
| PUBLIC: | | | | | | |
| SPRING | 3 | 3 | 4 | 3 | 30 | 26 |
| FALL | 4 | 4 | - | - | 27 | 25 |
| PRIVATE: | | | | | | |
| SPRING | - | - | 109 | 138 | 113 | 144 |
| FALL | - | - | 246 | 275 | 283 | 330 |
| TOTAL OYSTERS | 7 | 7 | 359 | 416 | 453 | 525 |
| PERIWINKLES AND COCKLES | - | - | - | - | 34 | 10 |
| SCALLOPS: | | | | | | |
| BAY | 2 | 2 | 129 | 106 | 704 | 671 |
| SEA | (1) | (1) | - | - | 23,775 | 9,035 |
| SEA URCHINS | - | - | - | - | 74 | 2 |
| SQUID | 301 | 35 | 52 | 5 | 1,221 | 105 |
| IRISH MOSS | - | - | - | - | 6,995 | 114 |
| BLOODWORMS | - | - | - | - | 600 | 521 |
| SANDWORMS | - | - | - | - | 685 | 424 |
| TOTAL SHELLFISH, ETC. | 4,084 | 1,460 | 1,236 | 844 | 70,672 | 28,754 |
| GRAND TOTAL | 84,046 | 3,317 | 6,142 | 1,186 | 760,078 | 60,858 |

1/ LESS THAN 500 POUNDS OR \$500.



HADDOCK

NEW ENGLAND FISHERIES

113

CATCH OF CERTAIN SHELLFISH, 1961

(NUMBER AND BUSHEL)

| SPECIES | MAINE | | NEW HAMPSHIRE | |
|---------------------------|----------------|-----------|---------------|-----------|
| | QUANTITY | VALUE | QUANTITY | VALUE |
| CRABS: | | | | |
| GREEN | NUMBER | - | 557,310 | \$1,856 |
| ROCK | DO | 4,737,900 | 75,000 | 875 |
| CLAMS: | U. S. STANDARD | | | |
| HARD: | BUSHEL | | | |
| PUBLIC | | 1,145 | - | - |
| SOFT, PUBLIC | DO | 122,967 | - | - |
| MUSSELS, SEA | DO | 147 | - | - |
| OYSTERS, MARKET, PUBLIC, | | | | |
| SPRING | DO | 387 | - | - |
| PERIWINKLES AND COCKLES . | DO | 1,872 | - | - |
| SCALLOPS, SEA | DO | 456,663 | - | - |
| | | 1,025,375 | | |
| SPECIES | MASSACHUSETTS | | RHODE ISLAND | |
| | QUANTITY | VALUE | QUANTITY | VALUE |
| CRABS: | | | | |
| GREEN | NUMBER | 821,675 | 405,426 | \$3,500 |
| ROCK | DO | 248,100 | 637,800 | 22,293 |
| CLAMS: | U. S. STANDARD | | | |
| HARD: | BUSHEL | | | |
| PUBLIC | | 150,118 | 217,292 | 992,603 |
| PRIVATE | DO | 1,145 | - | - |
| OCEAN QUAHOG | DO | - | 12,440 | 12,440 |
| RAZOR | DO | 1,538 | - | - |
| SOFT, PUBLIC | DO | 50,200 | 538 | 4,320 |
| SURF | DO | 1,100 | - | - |
| CONCHS | DO | 600 | 2,667 | 8,587 |
| MUSSELS, SEA | DO | 54,270 | 7,000 | 7,000 |
| OYSTERS, MARKET: | | | | |
| PUBLIC: | | | | |
| SPRING | DO | 3,077 | 429 | 2,427 |
| FALL | DO | 3,477 | 643 | 3,640 |
| PRIVATE: | | | | |
| SPRING | DO | 569 | - | - |
| FALL | DO | 5,723 | - | - |
| SCALLOPS: | | | | |
| BAY | DO | 95,467 | 283 | 1,627 |
| SEA | DO | 3,505,800 | 17 | 37 |
| | | 8,010,079 | | |
| SPECIES | CONNECTICUT | | TOTAL | |
| | QUANTITY | VALUE | QUANTITY | VALUE |
| CRABS: | | | | |
| BLUE, HARD | NUMBER | 8,400 | 8,400 | \$921 |
| GREEN | DO | - | 1,784,411 | 11,021 |
| ROCK | DO | - | 5,698,800 | 88,092 |
| CLAMS: | U. S. STANDARD | | | |
| HARD: | BUSHEL | | | |
| PUBLIC | | 34,967 | 403,522 | 2,114,344 |
| PRIVATE | DO | - | 1,145 | 12,650 |
| OCEAN QUAHOG | DO | - | 12,440 | 12,440 |
| RAZOR | DO | - | 1,538 | 7,878 |
| SOFT, PUBLIC | DO | 31 | 254 | 1,248,692 |
| SURF | DO | - | 1,100 | 2,075 |
| CONCHS | DO | 4,320 | 10,437 | 20,224 |
| MUSSELS, SEA | DO | - | - | 61,417 |
| OYSTERS, MARKET: | | | | |
| PUBLIC: | | | | |
| SPRING | DO | 532 | 4,425 | 25,570 |
| FALL | DO | - | 4,120 | 24,840 |
| PRIVATE: | | | | |
| SPRING | DO | 14,156 | 138,405 | 143,571 |
| FALL | DO | 31,883 | 275,625 | 330,300 |
| PERIWINKLES AND COCKLES . | DO | - | 1,872 | 10,274 |
| SCALLOPS: | | | | |
| BAY | DO | 20,726 | 116,476 | 670,525 |
| SEA | DO | - | - | - |
| | | 105,459 | 3,962,500 | 9,035,491 |

NOTE:--THE CAPACITY OF A U. S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

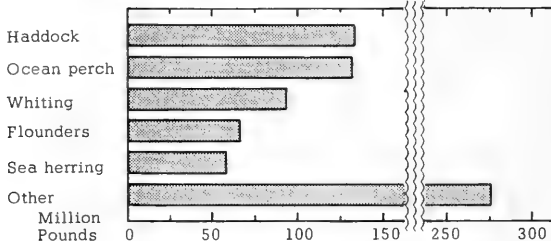
NEW ENGLAND FISHERIES

AVERAGE WEIGHTS OF CERTAIN SHELLFISH, 1961

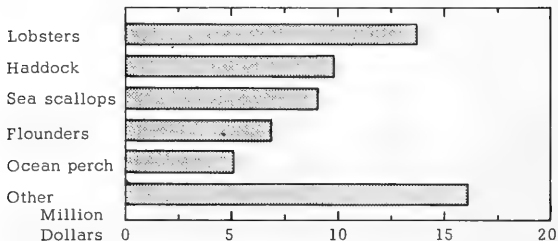
| SPECIES | | MAINE | NEW HAMPSHIRE | MASSACHUSETTS | RHODE ISLAND | CONNECTICUT |
|-------------------------|--|----------|---------------|---------------|--------------|-------------|
| | | QUANTITY | QUANTITY | QUANTITY | QUANTITY | QUANTITY |
| CRABS: | | | | | | |
| BLUE, HARD | NUMBER PER POUND | - | - | - | - | 2.40 |
| GREEN | DO | - | 14.29 | 14.29 | 13.79 | - |
| ROCK | DO | 3.00 | 3.00 | 3.00 | 3.00 | - |
| CLAMS: | | | | | | |
| HARD: | | | | | | |
| PUBLIC | LBS. OF MEATS PER U.S. STANDARD BUSHEL | 11.00 | - | 11.00 | 12.00 | 12.00 |
| PRIVATE | | - | - | 11.00 | - | - |
| OCEAN QUAHOG | DO | - | - | - | 10.00 | - |
| RAZOR | DO | - | - | 16.00 | - | - |
| SOFT, PUBLIC | DO | 15.00 | - | 13.00 | 13.00 | 13.00 |
| SURF | DO | - | - | 11.00 | - | - |
| CONCHS | DO | - | - | 15.00 | 15.00 | 15.00 |
| MUSSELS, SEA | DO | 15.00 | - | 10.00 | 10.00 | - |
| OYSTERS, MARKET: | | | | | | |
| PUBLIC: | | | | | | |
| SPRING | DO | 7.50 | - | 6.50 | 7.00 | 7.70 |
| FALL | DO | - | - | 6.50 | 7.00 | - |
| PRIVATE: | | | | | | |
| SPRING | DO | - | - | 6.50 | - | 7.70 |
| FALL | DO | - | - | 6.50 | - | 7.70 |
| PERIWINKLES AND COCKLES | DO | 18.00 | - | - | - | - |
| SCALLOPS: | | | | | | |
| BAY | DO | - | - | 6.00 | 6.00 | 6.20 |
| SEA | DO | 6.00 | - | 6.00 | 6.00 | - |

NOTE:--THE CAPACITY OF A U. S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

NEW ENGLAND STATES CATCH, 1961



VALUE OF NEW ENGLAND STATES CATCH, 1961



NEW ENGLAND FISHERIES

115

MANUFACTURED FISHERY PRODUCTS, 1961

| ITEM | MAINE | | NEW HAMPSHIRE | | |
|---|----------|-------------|---------------|--------|----------|
| | QUANTITY | VALUE | QUANTITY | VALUE | |
| ALEWIVES, CURED (SALTED AND SMOKED). | POUNDS | 350,158 | \$51,792 | - | - |
| COD: | | | | | |
| FILLETS: | | | | | |
| FRESH | DO | 125,365 | 30,175 | - | - |
| FROZEN | DO | 206,603 | 69,915 | - | - |
| CURED (SALTED AND SMOKED) | DO | 24,955 | 8,478 | - | - |
| CUSK FILLETS, FRESH | DO | 102,305 | 31,542 | - | - |
| FLOUNDER FILLETS: | | | | | |
| FRESH | DO | 31,420 | 10,884 | - | - |
| FROZEN | DO | 37,652 | 15,060 | - | - |
| HADDOCK: | | | | | |
| FILLETS: | | | | | |
| FRESH | DO | 644,231 | 248,095 | - | - |
| FROZEN | DO | 415,482 | 165,810 | - | - |
| SMOKED (FINNAN HADDIE) | DO | 37,370 | 10,368 | - | - |
| HAKE FILLETS, FRESH | DO | 207,074 | 59,455 | - | - |
| HERRING, SEA: | | | | | |
| SARDINES, CANNED | STANDARD | 753,647 | 7,559,619 | - | - |
| CURED (SALTED, SMOKED AND KIPPERED) | POUNDS | 457,640 | 149,126 | - | - |
| OCEAN PERCH FILLETS: | | | | | |
| FRESH | DO | 220,050 | 57,213 | - | - |
| FROZEN | DO | 20,992,686 | 5,320,457 | - | - |
| POLLOCK FILLETS: | | | | | |
| FRESH | DO | 341,845 | 50,794 | - | - |
| FROZEN | DO | 600,995 | 94,601 | - | - |
| WHITING FILLETS, FRESH AND FROZEN | DO | 609,493 | 97,143 | - | - |
| WOLFFISH FILLETS, FRESH | DO | 2,900 | 815 | - | - |
| CRAB MEAT, COOKED | DO | 162,633 | 214,019 | - | - |
| LOBSTER MEAT, COOKED (NORTHERN) | DO | 254,331 | 771,821 | 29,500 | \$68,875 |
| CLAMS: | | | | | |
| SHUCKED, SOFT | GALLONS | 86,063 | 537,261 | 66,104 | 406,126 |
| CANNED, SOFT AND HARD: | | | | | |
| WHOLE AND MINCED | STANDARD | 20,066 | 294,048 | - | - |
| CHOWDER AND JUICE | DO | 503,525 | 3,328,240 | - | - |
| SCALLOPS, SEA, BREADED (COOKED AND RAW) | POUNDS | (1) | (1) | - | - |
| UNCLASSIFIED PRODUCTS: | | | | | |
| FRESH AND FROZEN, PACKAGED: | | | | | |
| FISH: | | | | | |
| PORTIONS: | | | | | |
| RAW: | | | | | |
| NOT BREADED | DO | (2) | (2) | - | - |
| BREADED | DO | (2) | (2) | - | - |
| COOKED, BREADED | DO | (2) | (2) | - | - |
| STICKS, BREADED: | | | | | |
| RAW | DO | (2) | (2) | - | - |
| COOKED | DO | (2) | (2) | - | - |
| FISH AND SHELLFISH | DO | 3/5,908,353 | 3/3,182,149 | - | - |
| CANNED: | | | | | |
| FISH AND SHELLFISH (EDIBLE) | STANDARD | 5/ 101,653 | 5/1,368,252 | - | - |
| ANIMAL FOOD | DO | 827,438 | 5,234,321 | - | - |
| CURED FISH | POUNDS | 9/ 59,440 | 9/17,589 | - | - |
| INDUSTRIAL PRODUCTS | - | - | 11/4,458,975 | - | - |
| TOTAL | - | - | 33,438,017 | - | 497,001 |

| ITEM | MASSACHUSETTS | | RHODE ISLAND AND CONNECTICUT | | |
|-------------------------------------|---------------|------------|------------------------------|-------|-----|
| | QUANTITY | VALUE | QUANTITY | VALUE | |
| COD: | | | | | |
| FILLETS: | | | | | |
| FRESH | POUNDS | 2,684,423 | \$830,681 | - | - |
| FROZEN | DO | 2,724,615 | 687,392 | - | - |
| STEAKS, FRESH AND FROZEN | DO | 395,624 | 84,677 | - | - |
| CURED (SALTED AND SMOKED) | DO | (1) | (1) | - | - |
| CUSK FILLETS: | | | | | |
| FRESH | DO | 206,567 | 56,594 | - | - |
| FROZEN | DO | 31,377 | 9,411 | - | - |
| FLOUNDER FILLETS: | | | | | |
| FRESH | DO | 12,013,585 | 4,506,309 | (1) | (1) |
| FROZEN | DO | 5,142,026 | 1,554,480 | (1) | (1) |
| HADDOCK: | | | | | |
| FILLETS: | | | | | |
| FRESH | DO | 19,146,359 | 6,246,046 | - | - |
| FROZEN | DO | 16,495,941 | 4,704,424 | - | - |
| SMOKED (FINNAN HADDIE) | DO | (1) | (1) | - | - |

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

NEW ENGLAND FISHERIES

MANUFACTURED FISHERY PRODUCTS, 1961 - Continued

| ITEM | MASSACHUSETTS | | RHODE ISLAND AND CONNECTICUT | |
|--|---------------|--------------|------------------------------|--------------|
| | QUANTITY | VALUE | QUANTITY | VALUE |
| HAKE FILLETS: | | | | |
| FRESH | POUNDS 77,981 | \$21,532 | - | - |
| FROZEN | DO 13,167 | 2,183 | - | - |
| HALIBUT STEAKS, FROZEN | DO 881,640 | 381,995 | - | - |
| HERRING, SEA, CURED (SALTED, SMOKED AND KIPPERED) | DO 344,616 | 131,626 | - | - |
| MACKEREL FILLETS: | | | | |
| FRESH | DO 10,000 | 2,600 | - | - |
| FROZEN | DO 22,000 | 6,100 | - | - |
| OCEAN PERCH FILLETS: | | | | |
| FRESH | DO 212,585 | 53,877 | - | - |
| FROZEN | DO 16,068,422 | 4,043,603 | - | - |
| POLLOCK FILLETS: | | | | |
| FRESH | DO 1,313,319 | 294,757 | - | - |
| FROZEN | DO 4,304,782 | 741,145 | - | - |
| SALMON STEAKS, FROZEN | DO 46,010 | 35,468 | - | - |
| SWORDFISH STEAKS, FROZEN | DO 72,385 | 41,037 | - | - |
| WHITING FILLETS, FRESH AND FROZEN | DO 2,637,285 | 524,910 | (1) | (1) |
| WOLFFISH FILLETS: | | | | |
| FRESH | DO 30,610 | 10,055 | - | - |
| FROZEN | DO 193,515 | 63,092 | - | - |
| CRAB MEAT, COOKED | DO 119,620 | 235,005 | - | - |
| LOBSTER MEAT, COOKED (NORTHERN) | DO 576,733 | 1,667,850 | (1) | (1) |
| SHRIMP, COOKED (INCLUDING PEELLED AND BREADED) | DO 771,376 | 1,259,482 | - | - |
| CLAMS: | | | | |
| SHUCKED: | | | | |
| HARD (INCLUDING SURF AND RAZOR) GALLONS | 118,450 | 249,130 | 336,510 | \$1,418,804 |
| SOFT DO | 106,738 | 639,051 | 12,750 | 60,562 |
| CANNED, SOFT AND HARD: | | | | |
| WHOLE AND MINCED STANDARD CASES | | | (1) | (1) |
| CHOWDER AND JUICE DO | (1) | (1) | (1) | (1) |
| OYSTERS, SHUCKED GALLONS | - | - | 10,339 | 86,326 |
| SCALLOPS: | | | | |
| BAY, SHUCKED DO | 65,463 | 563,439 | - | - |
| SEA, BREADED (COOKED AND RAW) POUNDS | 5,572,924 | 3,846,668 | 14,458 | 107,086 |
| UNCLASSIFIED PRODUCTS: | | | | |
| FRESH AND FROZEN, PACKAGED: | | | | |
| FISH: | | | | |
| PORTIONS: | | | | |
| RAW: | | | | |
| NOT BREADED DO | 650,317 | 252,604 | - | - |
| BREADED DO | 10,886,969 | 3,781,238 | - | - |
| COOKED, BREADED DO | 5,794,684 | 2,264,900 | - | - |
| STICKS, BREADED: | | | | |
| RAW DO | 289,443 | 105,000 | - | - |
| COOKED DO | 37,497,549 | 15,357,457 | - | - |
| FISH CAKES, COOKED DO | 3,156,247 | 1,217,639 | - | - |
| FISH AND SHELLFISH DO | 4/8,985,294 | 4/6,162,738 | - | - |
| CANNED: | | | | |
| FISH AND SHELLFISH (EDIBLE) STANDARD CASES | 6/79,701 | 6/1,121,011 | (7) | (7) |
| ANIMAL FOOD DO | 8/628,838 | 8/2,867,020 | - | - |
| CURED FISH POUNDS | 10/2,014,292 | 10/1,421,509 | - | - |
| INDUSTRIAL PRODUCTS | - | 12/1,787,554 | (7) | (7) |
| MISCELLANEOUS ITEMS | - | - | - | 13/2,338,305 |
| TOTAL | - | 69,833,689 | - | 4,011,083 |

1/ INCLUDED WITH "UNCLASSIFIED PRODUCTS". 2/ INCLUDED WITH MISCELLANEOUS FISH AND SHELLFISH. 3/ INCLUDES FROZEN BREADED OCEAN PERCH FILLETS, SCALLOPS (RAW AND COOKED), PORTIONS AND STICKS (RAW AND COOKED), FROZEN FISH DINNERS, UNBREADED RAW PORTIONS, LOBSTER SPECIALTIES (DINNER, NEWBURG, PIE, AND STEW), AND SCALLOP DINNER. 4/ INCLUDES FROZEN, BREADED, AND COOKED SMELTS, FISH FILLETS, FISH BITS, SHRIMP CROQUETTES, AND CLAMS; FROZEN FLOUNDER IN SAUCE, HADDOCK DINNERS, HALIBUT IN SAUCE, TUNA LINKS, TUNA LOAF, FISH DINNERS, SHRIMP DINNERS, LOBSTER NEWBURG, STUFFED CLAMS, AND SCALLOP DINNERS. 5/ INCLUDES CANNED CREAMED HADDOCK, SALMON SPREAD, SARDINES IN COCKTAIL SAUCE, TUNA IN SHERRY, FISH CAKES, FISH FLAKES, FISH CHOWDER, CRAB MEAT, CRAB DIP, CRAB SPREAD, LOBSTER SPECIALTIES (BISQUE, KNUCKLES, MEAT, AND SPREAD), SHRIMP DIP, SHRIMP NEWBURG, CLAM SPECIALTIES (A LA KING, CAKES, DIP, SPREAD, STEAMED-IN-THE-SHELL, AND STEW), MUSSELS, AND SHELLFISH CHOWDER, AND SOUP. 6/ INCLUDES CANNED SALTED COD, GROUND FISH ROE, FISH CAKES, FISH FLAKES, CLAM CHOWDER, AND CLAMS IN THE SHELL. 7/ INCLUDED WITH MISCELLANEOUS ITEMS. 8/ DOES NOT INCLUDE THE CANNED ANIMAL FOOD WHICH CONTAINS LESS THAN 10 POUNDS PER STANDARD CASE. 9/ INCLUDES DRIED POLLOCK; SALTED CUSK, HAKE, AND POLLOCK; SMOKED POLLOCK AND UNCLASSIFIED FILLETS. 10/ INCLUDES SALTED COD, HAKE, AND POLLOCK; SMOKED BUTTERFISH, CHUBS, COD, HADDOCK (FINNAN HADDIE), MACKEREL, POLLOCK, SABLEFISH, SALMON, TUNA, WHITEFISH, AND UNCLASSIFIED FISH. 11/ INCLUDES HERRING AND UNCLASSIFIED MEAL AND OIL; FISH SOLUBLES, IRISH MOSS EXTRACT, KELP PRODUCTS, AND PEARL ESSENCE. 12/ INCLUDES GROUND FISH, MENHADEN, OCEAN PERCH, AND UNCLASSIFIED MEAL; MENHADEN, OCEAN PERCH, AND UNCLASSIFIED OIL; FISH SOLUBLES, HOMOGENIZED FISH, AND GLUE. 13/ INCLUDES FRESH AND FROZEN FLOUNDER FILLETS; FROZEN WHITING FILLETS; CANNED LOBSTER MEAT; MINCED CLAMS, CLAM BISQUE, CLAM CHOWDER, AND CLAM FRITTERS; MENHADEN AND UNCLASSIFIED MEAL, MENHADEN OIL, HOMOGENIZED FISH, AND MARINE PEARL SHELL BUTTONS.

NOTE: --SOME OF THE ABOVE PRODUCTS MAY HAVE BEEN MANUFACTURED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR A FOREIGN COUNTRY; THEREFORE, THEY CANNOT BE CORRELATED DIRECTLY WITH THE CATCH WITHIN THE STATE.

WHOLESALE AND MANUFACTURING, 1961

| ITEM | MAINE | NEW HAMPSHIRE | MASSACHUSETTS | RHODE ISLAND | CONNECTICUT | TOTAL |
|-----------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| WHOLESALE AND MANUFACTURING: | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| ESTABLISHMENTS | 255 | 14 | 226 | 36 | 10 | 541 |
| PERSONS ENGAGED: | | | | | | |
| AVERAGE FOR SEASON | 7,276 | 122 | 5,852 | 381 | 40 | 13,671 |
| AVERAGE FOR YEAR | 3,311 | 84 | 4,882 | 300 | 29 | 8,606 |
| FISHERMEN MANUFACTURING | 460 | - | - | - | - | 460 |



SUMMARY OF MANUFACTURED PRODUCTS, 1961

(VALUE IN THOUSANDS OF DOLLARS)

| ITEMS | QUANTITY | VALUE |
|--|----------------|---------|
| PACKAGED PRODUCTS, FRESH AND FROZEN: | | |
| NOT BREADED: | | |
| FISH | 1,000 POUNDS | 110,996 |
| SHELLFISH | DO | 8,627 |
| BREADED: | | |
| FISH | DO | 59,233 |
| SHELLFISH | DO | 9,533 |
| SPECIALTIES, FISH AND SHELLFISH (NOT BREADED AND BREADED) | DO | 9,720 |
| CANNED: | 1,000 STANDARD | |
| FISH | CASES | 912 |
| SHELLFISH | DO | 588 |
| ANIMAL FOOD | DO | 1,456 |
| CURED: | | |
| SALTED AND PICKLED (INCLUDING DRIED). SMOKED AND KIPPERED | 1,000 POUNDS | 1,457 |
| INDUSTRIAL PRODUCTS | DO | 1,832 |
| TOTAL | - | 107,780 |



VALUE OF MANUFACTURED PRODUCTS, BY STATES, 1961

(THOUSANDS OF DOLLARS)

| STATE | VALUE |
|-------------------------|---------|
| MAINE | 33,438 |
| NEW HAMPSHIRE | 497 |
| MASSACHUSETTS | 69,834 |
| RHODE ISLAND | 3,195 |
| CONNECTICUT | 816 |
| TOTAL | 107,780 |

NEW ENGLAND FISHERIES MAINE

OPERATING UNITS BY GEAR, 1961

| ITEM | HAUL SEINES, COMMON | STOP SEINES | PURSE SEINES | | BAG NETS | OTTER TRAWLS FISH |
|--------------------------|------------------------|-------------|--------------|----------|----------|----------------------|
| | | | HERRING | MACKEREL | | |
| FISHERMEN: | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| ON VESSELS | - | 97 | 3 | - | - | 335 |
| ON BOATS AND SHORE: | | | | | | |
| REGULAR | 1 | 139 | 18 | 5 | 2 | 43 |
| CASUAL | 1 | 268 | 44 | 5 | 5 | 19 |
| TOTAL | 2 | 524 | 65 | 10 | 7 | 397 |
| VESSELS, MOTOR | - | 20 | 1 | - | - | 79 |
| GROSS TONNAGE | - | 344 | 16 | - | - | 6,613 |
| BOATS: | | | | | | |
| MOTOR | 1 | 94 | 14 | 2 | 3 | 36 |
| OTHER | - | 146 | 14 | 2 | 3 | - |
| GEAR: | | | | | | |
| NUMBER | 1 | 114 | 14 | 2 | 5 | 115 |
| LENGTH, YARDS | 100 | 51,300 | 4,900 | 700 | - | - |
| YARDS AT MOUTH | - | - | - | - | - | 2,634 |

| ITEM | OTTER TRAWLS- CONTINUED | WEIRS | FLOATING TRAPS | FYKE AND HOOP NETS, FISH | POTS AND TRAPS | |
|--------------------------|----------------------------|--------|-------------------|--------------------------------|----------------|-----------|
| | SHR. MP | | | | LOBSTER | BOX TRAPS |
| FISHERMEN: | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| ON VESSELS | - | - | - | - | 37 | - |
| ON BOATS AND SHORE: | | | | | | |
| REGULAR | 10 | 116 | 13 | - | 4,325 | - |
| CASUAL | - | 92 | 2 | 2 | 2,147 | 13 |
| TOTAL | 10 | 208 | 15 | 2 | 6,509 | 13 |
| VESSELS, MOTOR | - | - | - | - | 35 | - |
| GROSS TONNAGE | - | - | - | - | 349 | - |
| BOATS: | | | | | | |
| MOTOR | 10 | 116 | 6 | 2 | 6,421 | 3 |
| OTHER | - | 116 | 5 | - | 32 | - |
| GEAR: | | | | | | |
| NUMBER | 10 | 116 | 9 | 3 | 760,413 | 10 |
| YARDS AT MOUTH | 200 | - | - | - | - | - |

| ITEM | GILL NETS, ANCHOR, SET OR STAKE | LINES | | DIP NETS, COMMON | HARPOONS | DREDGES OYSTER |
|--------------------------|--|--------|---------------------------|------------------------|----------|-------------------|
| | | HAND | LONG OR SET WITH HOOKS | | | |
| FISHERMEN: | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| ON VESSELS | 19 | 5 | - | - | - | - |
| ON BOATS AND SHORE: | | | | | | |
| REGULAR | 1 | 33 | 106 | 40 | 24 | - |
| CASUAL | 2 | 126 | 44 | 4E | 47 | 5 |
| TOTAL | 22 | 166 | 152 | 6E | 71 | 5 |
| VESSELS, MOTOR | 5 | 3 | - | - | - | - |
| GROSS TONNAGE | 10E | 61 | - | - | - | - |
| BOATS, MOTOR | 3 | 50 | 92 | 1 | 35 | 2 |
| GEAR: | | | | | | |
| NUMBER | 8 | 212 | 92 | 6E | 35 | 2 |
| SQUARE YARDS | 18,160 | - | - | - | - | - |
| HOOKS | - | 246 | 353,000 | - | - | - |

| ITEM | DREDGES- CONTINUED | RAKES | HOES | BY HAND | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|--------------------------|-----------------------|--------|--------|---------|--|
| | SCALLOP | | | | |
| FISHERMEN: | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| ON VESSELS | 109 | - | - | - | 598 |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | 36 | - | 1,365 | 52 | 5,402 |
| CASUAL | 10 | 250 | 936 | 34 | 3,945 |
| TOTAL | 157 | 250 | 2,301 | 86 | 9,345 |
| VESSELS, MOTOR | 12 | - | - | - | 150 |
| GROSS TONNAGE | 1,060 | - | - | - | 6,482 |
| BOATS: | | | | | |
| MOTOR | 36 | 125 | - | - | 6,20 |
| OTHER | - | - | - | - | 279 |
| GEAR: | | | | | |
| NUMBER | 55 | 250 | 2,301 | - | - |
| YARDS AT MOUTH | 99 | - | - | - | - |

NEW ENGLAND FISHERIES

119

MAINE - CATCH BY GEAR, 1961

| SPECIES | HAUL SEINES | | STOP SEINES | | PURSE SEINES | |
|---|-------------|-------|-------------|---------|--------------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | - | - | 107,300 | \$869 | - | - |
| HERRING, SEA | 28,000 | \$182 | 37,401,700 | 711,371 | 12,560,700 | \$236,645 |
| MACKEREL | - | - | 21,300 | 1,032 | 5,200 | 526 |
| UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD | - | - | 85,400 | 555 | 4,200 | 27 |
| TOTAL | 28,000 | 182 | 37,615,700 | 713,827 | 12,570,100 | 237,198 |

| SPECIES | BAG NETS | | OTTER TRAWLS | | WEIRS | |
|---|----------|----------|--------------|-----------|-----------|----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| COD | - | - | 1,163,000 | \$49,958 | - | - |
| CUSK | - | - | 375,800 | 18,803 | - | - |
| FLOUNDERS: | | | | | | |
| BLACKBACK | - | - | 158,200 | 7,323 | - | - |
| DAB | - | - | 687,500 | 32,843 | - | - |
| GRAY SOLE | - | - | 569,700 | 58,143 | - | - |
| LEMON SOLE | - | - | 400 | 45 | - | - |
| YELLOWTAIL | - | - | 65,800 | 3,942 | - | - |
| HADDOCK | - | - | 2,620,900 | 196,784 | - | - |
| HAKE, WHITE | - | - | 778,300 | 28,866 | - | - |
| HALIBUT | - | - | 26,100 | 6,985 | - | - |
| HERRING, SEA | - | - | 40,200 | 2,570 | 4,405,800 | \$84,221 |
| MACKEREL | - | - | - | - | 94,800 | 5,506 |
| OCEAN PERCH | - | - | 77,350,000 | 2,942,311 | - | - |
| POLLOCK | - | - | 2,255,800 | 68,239 | - | - |
| SHARKS, UNCLASSIFIED | - | - | 1,600 | 96 | - | - |
| SMELT | 36,800 | \$10,496 | - | - | - | - |
| STURGEON | - | - | 300 | 24 | - | - |
| WHITING | - | - | 14,146,800 | 236,734 | - | - |
| WOLFFISH | - | - | 45,000 | 1,416 | - | - |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | - | - | 700 | 20 | - | - |
| BAIT, REDUCTION, AND ANIMAL FOOD | 42,500 | 231 | 1,259,300 | 7,527 | - | - |
| LOBSTERS, NORTHERN | - | - | 7,800 | 5,315 | - | - |
| SHRIMP | - | - | 67,200 | 13,604 | - | - |
| TOTAL | 79,300 | 10,727 | 101,620,400 | 3,681,548 | 4,500,600 | 89,727 |

| SPECIES | FLOATING TRAPS | | FYKE AND HOOP NETS | | POTS AND TRAPS | |
|---|----------------|-------|--------------------|-------|----------------|------------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BUTTERFISH | 7,400 | \$728 | - | - | - | - |
| EELS, COMMON | - | - | 1,700 | \$510 | 30,300 | \$6,925 |
| HERRING, SEA | 26,200 | 533 | - | - | - | - |
| MACKEREL | 31,000 | 2,771 | - | - | - | - |
| SALMON | 400 | 438 | - | - | - | - |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | - | - | 1,700 | 85 | - | - |
| BAIT, REDUCTION, AND ANIMAL FOOD | - | - | - | - | 1,000 | 3 |
| CRABS, ROCK 1/ | - | - | - | - | 1,579,300 | 58,385 |
| LOBSTERS, NORTHERN | - | - | - | - | 20,910,100 | 11,114,488 |
| TOTAL | 65,000 | 4,470 | 3,400 | 595 | 22,520,700 | 11,179,801 |

| SPECIES | GILL NETS | | LINES | | | |
|-----------------------|-----------|----------|---------|---------|---------------------------|----------|
| | | | HAND | | LONG OR SET WITH HOOKS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| COD | 782,800 | \$54,823 | 142,600 | \$4,521 | 418,100 | \$14,705 |
| CUSK | 8,300 | 412 | 4,200 | 212 | 211,100 | 11,818 |
| FLOUNDERS: | | | | | | |
| DAB | - | - | - | - | 1,000 | 38 |
| YELLOWTAIL | - | - | 100 | 8 | - | - |
| HADDOCK | 150,100 | 14,701 | 900 | 73 | 168,000 | 15,507 |
| HAKE, WHITE | 310,100 | 16,414 | 7,400 | 328 | 1,634,700 | 49,419 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

NEW ENGLAND FISHERIES

MAINE - CATCH BY GEAR, 1961 - Continued

| SPECIES | GILL NETS | | LINES | | | |
|--|-----------|---------|---------|---------|------------------------|----------|
| | | | HAND | | LONG OR SET WITH HOOKS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| HALIBUT | 2,200 | \$515 | 4,500 | \$1,515 | 36,300 | \$12,206 |
| MACKEREL | - | - | 500 | 103 | - | - |
| OCEAN PERCH | - | - | - | - | 100 | 2 |
| POLLOCK | 854,600 | 32,418 | 69,700 | 1,983 | 26,000 | 715 |
| SHARKS: | | | | | | |
| GRAYFISH | 938,200 | 6,099 | - | - | 27,800 | 181 |
| UNCLASSIFIED | 10,800 | 484 | 200 | 8 | 400 | 19 |
| SMELT | 8,300 | 2,357 | 29,700 | 8,349 | - | - |
| STRIPED BASS | - | - | 300 | 49 | - | - |
| STURGEON | 900 | 152 | - | - | - | - |
| TUNA, BLUEFIN | - | - | 2,900 | 386 | - | - |
| WOLFFISH | - | - | - | - | 4,400 | 111 |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | 200 | 9 | - | - | 200 | 12 |
| BAIT, REDUCTION, AND ANIMAL FOOD | 16,900 | 123 | - | - | 50,200 | 326 |
| TOTAL | 3,085,400 | 128,507 | 263,000 | 17,535 | 2,578,300 | 105,059 |

| SPECIES | DIP NETS | | HARPOONS | | DREDGES | |
|---|-----------|----------|----------|--------|-----------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | 1,559,900 | \$23,634 | - | - | - | - |
| SHARKS, UNCLASSIFIED | - | - | 3,200 | \$140 | - | - |
| SMELT | 4,300 | 987 | - | - | - | - |
| SWORDFISH | - | - | 5,900 | 2,073 | - | - |
| TUNA, BLUEFIN | - | - | 102,200 | 8,797 | - | - |
| OYSTERS, MARKET, PUBLIC, SPRING | - | - | - | - | 2,900 | \$2,290 |
| SCALLOPS, SEA | - | - | - | - | 2,740,100 | 1,025,375 |
| SEA URCHINS | 74,100 | 1,998 | - | - | - | - |
| TOTAL | 1,638,300 | 26,619 | 111,300 | 11,010 | 2,743,000 | 1,027,665 |

| SPECIES | RAKES | | HOES | | BY HAND | |
|-----------------------------------|-----------|----------|-----------|-----------|---------|----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| CLAMS: | | | | | | |
| HARD, PUBLIC | - | - | 12,600 | \$6,746 | - | - |
| SOFT, PUBLIC | - | - | 1,644,500 | 793,590 | - | - |
| MUSSELS, SEA | - | - | 2,200 | 92 | - | - |
| PERIWINKLES AND COCKLES | - | - | - | - | 33,700 | \$10,274 |
| IRISH MOSS | 5,416,800 | \$81,252 | - | - | - | - |
| BLOODWORMS | - | - | 594,200 | 515,979 | - | - |
| SANDWORMS | - | - | 643,000 | 387,066 | - | - |
| TOTAL | 5,416,800 | 81,252 | 3,096,500 | 1,703,473 | 33,700 | 10,274 |

1/ INCLUDES A SMALL CATCH OF GREEN CRABS.



NEW ENGLAND FISHERIES

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NEW HAMPSHIRE

OPERATING UNITS BY GEAR, 1961

| ITEM | BAG NETS | WEIRS | POTS AND TRAPS | |
|--------------------------------|----------|--------|----------------|---------|
| | | | CRAB | LOBSTER |
| | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN, ON BOATS AND SHORE: | | | | |
| REGULAR | - | - | - | 84 |
| CASUAL | 4 | 11 | 2 | 106 |
| TOTAL | 4 | 11 | 2 | 190 |
| BOATS: | | | | |
| MOTOR | - | 3 | - | 173 |
| OTHER | - | 4 | - | 5 |
| GEAR, NUMBER | 4 | 9 | 90 | 16,250 |

| ITEM | GILL NETS, DRIFT | LINES | | HOES | TOTAL, EXCLUSIVE OF DUPLICATION |
|--------------------------------|------------------|--------|------------------------|--------|---------------------------------|
| | | HAND | LONG OR SET WITH HOOKS | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN, ON BOATS AND SHORE: | | | | | |
| REGULAR | 2 | 10 | 8 | - | 84 |
| CASUAL | - | 170 | - | 45 | 261 |
| TOTAL | 2 | 180 | 8 | 45 | 345 |
| BOATS: | | | | | |
| MOTOR | 1 | - | 4 | - | 176 |
| OTHER | - | - | - | - | 9 |
| GEAR: | | | | | |
| NUMBER | 1 | 360 | 4 | 45 | - |
| SQUARE YARDS | 2,500 | - | - | - | - |
| HOOKS | - | 720 | 6,500 | - | - |

NEW HAMPSHIRE - CATCH BY GEAR, 1961

| SPECIES | BAG NETS | | WEIRS | | POTS AND TRAPS | |
|------------------------------|----------|---------|---------|---------|----------------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | - | - | 100,000 | \$1,000 | - | - |
| EELS, COMMON | - | - | 5,000 | 1,100 | - | - |
| SMELT | 3,000 | \$1,100 | 21,000 | 4,200 | - | - |
| CRABS: | | | | | | |
| GREEN | - | - | - | - | 39,000 | \$1,856 |
| ROCK | - | - | - | - | 25,000 | 875 |
| LOBSTERS, NORTHERN | - | - | - | - | 823,000 | 387,000 |
| TOTAL | 3,000 | 1,100 | 125,000 | 6,300 | 887,000 | 389,731 |

| SPECIES | GILL NETS, DRIFT | | LINES | | | | HOES | |
|-----------------------|------------------|---------|--------|----------|--------|---------|--------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| COD | - | - | - | - | 30,000 | \$1,800 | - | - |
| CUSK | - | - | - | - | 7,500 | 300 | - | - |
| HADDOCK | - | - | - | - | 35,000 | 3,000 | - | - |
| HAKE, WHITE | - | - | - | - | 500 | 25 | - | - |
| HALIBUT | - | - | - | - | 2,500 | 875 | - | - |
| MACKEREL | 4,500 | \$1,000 | - | - | - | - | - | - |
| POLLOCK | - | - | - | - | 5,000 | 200 | - | - |
| SMELT | - | - | 35,000 | \$13,300 | - | - | - | - |
| WOLFFISH | - | - | - | - | 500 | 25 | - | - |
| BLOODWORMS | - | - | - | - | - | - | 2,000 | \$1,200 |
| SANDWORMS | - | - | - | - | - | - | 8,000 | 6,800 |
| TOTAL | 4,500 | 1,000 | 35,000 | 13,300 | 81,000 | 6,225 | 10,000 | 8,000 |

NEW ENGLAND FISHERIES

MASSACHUSETTS

OPERATING UNITS BY GEAR, 1961

| ITEM | HAUL SEINES, COMMON | PURSE SEINES | | |
|--------------------------|------------------------|---------------|---------------|---------------|
| | | MENHADEN | TUNA | OTHER |
| FISHERMEN: | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| ON VESSELS | - | 40 | 18 | 80 |
| ON BOATS AND SHORE: | | | | |
| REGULAR | 3 | - | - | - |
| CASUAL | 20 | - | - | - |
| TOTAL | 23 | 40 | 18 | 80 |
| VESSELS, MOTOR | - | 5 | 2 | 5 |
| GROSS TONNAGE | - | 343 | 144 | 356 |
| BOATS: | | | | |
| MOTOR | 3 | 5 | 2 | 5 |
| OTHER | 3 | 5 | - | 5 |
| GEAR: | | | | |
| NUMBER | 6 | 5 | 2 | 5 |
| LENGTH, YARDS | 209 | 1,675 | 900 | 2,600 |

| ITEM | OTTER TRAWLS, FISH | POUND NETS, FISH | FLOATING TRAPS | POTS AND TRAPS |
|--------------------------|-----------------------|------------------------|-------------------|----------------|
| | | | | CONCH |
| FISHERMEN: | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| ON VESSELS | 2,475 | 8 | 3 | - |
| ON BOATS AND SHORE: | | | | |
| REGULAR | 14 | 57 | 27 | 1 |
| CASUAL | 2 | 2 | 4 | - |
| TOTAL | 2,491 | 67 | 34 | 1 |
| VESSELS, MOTOR | 401 | 2 | 1 | - |
| GROSS TONNAGE | 28,008 | 22 | 12 | - |
| BOATS: | | | | |
| MOTOR | 9 | 19 | 13 | 1 |
| OTHER | - | 21 | 14 | - |
| GEAR: | | | | |
| NUMBER | 410 | 58 | 25 | 95 |
| YARDS AT MOUTH | 10,901 | - | - | - |

| ITEM | POTS AND TRAPS - CONTINUED | | | GILL NETS |
|--------------------------|----------------------------|---------------|---------------|-------------------------|
| | CRAB | EEL | LOBSTER | ANGHOR, SET OR STAKE |
| FISHERMEN: | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| ON VESSELS | - | - | - | 30 |
| ON BOATS AND SHORE: | | | | |
| REGULAR | 2 | 1 | 311 | 20 |
| CASUAL | 2 | 6 | 1,079 | 6 |
| TOTAL | 4 | 7 | 1,390 | 56 |
| VESSELS, MOTOR | - | - | - | 8 |
| GROSS TONNAGE | - | - | - | 201 |
| BOATS: | | | | |
| MOTOR | 3 | 6 | 929 | 16 |
| OTHER | - | - | 294 | - |
| GEAR: | | | | |
| NUMBER | 152 | 295 | 90,463 | 24 |
| SQUARE YARDS | - | - | - | 143,640 |

| ITEM | GILL NETS - CONTINUED | LINES | | |
|--------------------------|--------------------------|---------------|---------------|---------------------------|
| | DRIFT | HAND | TROLL | LONG OR SET WITH HOOKS |
| FISHERMEN: | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| ON VESSELS | 6 | 3 | - | 58 |
| ON BOATS AND SHORE: | | | | |
| REGULAR | 4 | 70 | - | 84 |
| CASUAL | 25 | 1,793 | 7 | 68 |
| TOTAL | 35 | 1,866 | 7 | 210 |
| VESSELS, MOTOR | 3 | 2 | - | 11 |
| GROSS TONNAGE | 32 | 24 | - | 216 |
| BOATS, MOTOR | 17 | 398 | 3 | 77 |
| GEAR: | | | | |
| NUMBER | 20 | 1,943 | 9 | 88 |
| SQUARE YARDS | 103,000 | - | - | - |
| HOOKS | - | 2,088 | 9 | 262,260 |

(CONTINUED ON NEXT PAGE)

NEW ENGLAND FISHERIES

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MASSACHUSETTS - OPERATING UNITS BY GEAR, 1961 - Continued

| ITEM | DIP NETS, COMMON | LIFT NETS | HARPOONS | |
|-------------------------|------------------------|---------------|---------------|---------------|
| | | | SWORDFISH | OTHER |
| FISHERMEN: | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| ON VESSELS | - | - | 62 | 9 |
| ON BOATS AND SHORE: | | | | |
| REGULAR | 30 | - | - | 6 |
| CASUAL | 132 | 2 | 195 | 47 |
| TOTAL | 162 | 2 | 257 | 62 |
| VESSELS, MOTOR: | | | | |
| GROSS TONNAGE | - | - | 16 | 2 |
| BOATS: | | | | |
| MOTOR | - | - | 489 | 108 |
| OTHER | 162 | - | 63 | 23 |
| GEAR, NUMBER | 162 | 1 | 17 | 25 |
| | | | 79 | |

| ITEM | SPEARS | DREDGES | | |
|--------------------------|---------------|---------------|---------------|----------------|
| | | CLAM | MUSSEL | OYSTER, COMMON |
| FISHERMEN: | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| ON VESSELS | - | 11 | - | - |
| ON BOATS AND SHORE: | | | | |
| REGULAR | 1 | 38 | 13 | 2 |
| CASUAL | 6 | 14 | - | 4 |
| TOTAL | 7 | 63 | 13 | 6 |
| VESSELS, MOTOR: | | | | |
| GROSS TONNAGE | - | 4 | - | - |
| BOATS: | | | | |
| MOTOR | - | 108 | - | - |
| OTHER | 1 | 27 | 10 | 3 |
| GEAR: | | | | |
| NUMBER | 7 | 31 | 10 | 3 |
| YARDS AT MOUTH | - | 26 | 9 | 3 |

| ITEM | DREDGES - CONTINUED | TONGS | | RAKES | |
|--------------------------|------------------------|---------------|---------------|---------------|---------------|
| | | SCALLOP | OYSTER | OYSTER | OTHER |
| FISHERMEN: | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| ON VESSELS | 818 | - | - | - | - |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | 81 | 11 | 73 | - | 134 |
| CASUAL | 728 | 11 | 84 | 9 | 561 |
| TOTAL | 1,627 | 22 | 157 | 9 | 695 |
| VESSELS, MOTOR: | | | | | |
| GROSS TONNAGE | 79 | - | - | - | - |
| BOATS, MOTOR: | 6,921 | - | 157 | 9 | 694 |
| GEAR: | | | | | |
| NUMBER | 471 | 22 | 157 | 9 | 695 |
| YARDS AT MOUTH | 1,459 | 22 | 157 | 9 | 695 |
| | 1,563 | - | - | - | - |

| ITEM | HOES | FORKS | DIVING OUTFITS | BY HAND | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|-------------------------|---------------|---------------|-------------------|---------------|--|
| | | | | | NUMBER |
| FISHERMEN: | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| ON VESSELS | - | - | - | - | 3,426 |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | 140 | 64 | - | - | 859 |
| CASUAL | 762 | 33 | 536 | 31 | 5,603 |
| TOTAL | 902 | 97 | 536 | 31 | 9,888 |
| VESSELS, MOTOR: | | | | | |
| GROSS TONNAGE | - | - | - | - | 497 |
| BOATS: | | | | | |
| MOTOR | - | 55 | - | - | 34,914 |
| OTHER | - | - | - | - | 2,646 |
| GEAR, NUMBER | 902 | 89 | 536 | - | 360 |

NEW ENGLAND FISHERIES

MASSACHUSETTS - CATCH BY GEAR, 1961

| SPECIES | HAUL SEINES | | PURSE SEINES | | OTTER TRAWLS | |
|--------------------------------|-------------|----------|--------------|-----------|--------------|------------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | 1,230,600 | \$13,309 | 19,107,600 | \$176,398 | - | - |
| ANGLERFISH | - | - | - | - | 8,700 | \$271 |
| BLUEFISH | - | - | - | - | 100 | 9 |
| BUTTERFISH | - | - | 900 | 52 | 620,200 | 117,484 |
| COD | - | - | - | - | 33,658,900 | 2,073,200 |
| CUSK | - | - | - | - | 967,600 | 51,177 |
| EELS: | - | - | - | - | - | - |
| COMMON | - | - | - | - | 1,200 | 118 |
| CONGER | - | - | - | - | 200 | 3 |
| FLOUNDERS: | - | - | - | - | - | - |
| BLACKBACK | - | - | - | - | 11,782,300 | 1,337,031 |
| DAB | - | - | - | - | 2,791,700 | 217,555 |
| FLUKE | - | - | - | - | 5,185,300 | 925,804 |
| GRAY SOLE | - | - | - | - | 1,985,900 | 270,063 |
| LEMON SOLE | - | - | - | - | 2,400,200 | 532,651 |
| YELLOWTAIL | - | - | - | - | 34,590,000 | 2,951,271 |
| HADDOCK | - | - | - | - | 127,685,100 | 9,423,809 |
| HAKE: | - | - | - | - | - | - |
| RED | - | - | - | - | 7,036,400 | 84,615 |
| WHITE | - | - | - | - | 2,181,000 | 107,282 |
| HALIBUT | - | - | - | - | 166,300 | 38,410 |
| HERRING, SEA | - | - | 349,600 | 2,548 | 49,400 | 4,022 |
| LAUNCE | 194,000 | 10,786 | - | - | - | - |
| MACKEREL | - | - | 6,200 | 363 | 2,600 | 568 |
| MENHADEN | - | - | 3,329,400 | 29,513 | - | - |
| OCEAN PERCH | - | - | - | - | 54,712,600 | 2,172,242 |
| POLLOCK | - | - | - | - | 17,186,300 | 654,755 |
| SCUP OR PORGY | - | - | - | - | 1,075,800 | 43,947 |
| SEA BASS | - | - | - | - | 48,000 | 7,125 |
| SHAD | - | - | 58,000 | 581 | 200 | 9 |
| SHARKS, UNCLASSIFIED | - | - | - | - | 5,100 | 357 |
| SKATES | - | - | - | - | 38,800 | 1,378 |
| STRIPED BASS | - | - | - | - | 100 | 4 |
| STURGEON | - | - | - | - | 3,800 | 379 |
| TAUOG | - | - | - | - | 5,100 | 179 |
| TILEFISH | - | - | - | - | 357,400 | 36,731 |
| TUNA, BLUEFIN | - | - | 1,991,600 | 92,790 | - | - |
| WHITING | - | - | - | - | 73,708,800 | 1,605,912 |
| WOLFFISH | - | - | - | - | 580,300 | 36,131 |
| UNCLASSIFIED: | - | - | - | - | - | - |
| FOR FOOD | - | - | - | - | 5,277,300 | 328,272 |
| BAIT, REDUCTION, AND | - | - | - | - | - | - |
| ANIMAL FOOD | - | - | - | - | 12,705,700 | 92,346 |
| LOBSTERS, NORTHERN | - | - | - | - | 409,900 | 186,502 |
| SHRIMP | - | - | - | - | 600 | 129 |
| SCALLOPS, SEA | - | - | - | - | 2,200 | 875 |
| SQUID | - | - | - | - | 43,000 | 3,727 |
| TOTAL | 1,424,600 | 24,095 | 24,843,300 | 302,245 | 397,274,100 | 23,306,343 |

| SPECIES | POUND NETS | | FLOATING TRAPS | | POTS AND TRAPS | |
|-------------------------|------------|---------|----------------|--------|----------------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ANCHOVIES | 51,700 | \$5,170 | - | - | - | - |
| BLUEFISH | 3,200 | 603 | 100 | \$10 | - | - |
| BONITO | 16,800 | 1,797 | - | - | - | - |
| BUTTERFISH | 336,200 | 38,087 | 159,100 | 15,164 | - | - |
| COD | 3,300 | 163 | 11,800 | 593 | - | - |
| EELS, COMMON | - | - | - | - | 13,300 | \$2,762 |
| FLOUNDERS: | - | - | - | - | - | - |
| BLACKBACK | 1,900 | 160 | - | - | - | - |
| FLUKE | 42,200 | 4,120 | - | - | - | - |
| HAKE: | - | - | - | - | - | - |
| RED | 108,400 | 1,196 | - | - | - | - |
| WHITE | 800 | 24 | - | - | - | - |
| HALIBUT | - | - | 200 | 40 | - | - |
| HERRING, SEA | 1,968,200 | 36,798 | 754,900 | 5,832 | - | - |
| MACKEREL | 1,410,400 | 209,617 | 446,000 | 58,928 | - | - |
| MENHADEN | 33,400 | 345 | - | - | - | - |
| POLLOCK | 93,800 | 3,945 | 14,900 | 374 | - | - |
| SALMON | - | - | 100 | 101 | - | - |
| SCUP OR PORGY | 13,200 | 1,332 | - | - | - | - |
| SEA BASS | 2,700 | 261 | - | - | - | - |
| SHAD | 20,800 | 945 | - | - | - | - |

(CONTINUED ON NEXT PAGE)

NEW ENGLAND FISHERIES

125

MASSACHUSETTS - CATCH BY GEAR, 1961 - Continued

| SPECIES | POUND NETS | | FLOATING TRAPS | | POTS AND TRAPS | |
|--|------------|---------|----------------|--------|----------------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| SHARKS, UNCLASSIFIED. | - | - | 100 | \$5 | - | - |
| STRIPED BASS. | 40,600 | \$8,022 | 700 | 107 | - | - |
| STURGEON. | 100 | 12 | 100 | 11 | - | - |
| TAUTOG. | 13,200 | 574 | 300 | 13 | - | - |
| TUNA, BLUEFIN. | 143,900 | 17,649 | 1,700 | 181 | - | - |
| WHITING. | 173,300 | 4,203 | 128,000 | 5,778 | - | - |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD. | 2,300 | 169 | 92,100 | 6,276 | - | - |
| BAIT, REDUCTION, AND ANIMAL FOOD. | 4,800 | 84 | - | - | - | - |
| CRABS: | | | | | | |
| GREEN. | - | - | - | - | 57,500 | \$5,665 |
| ROCK. | - | - | - | - | 82,700 | 6,539 |
| LOBSTERS, NORTHERN. | - | - | - | - | 2,852,200 | 1,555,339 |
| CONCHS. | - | - | - | - | 9,000 | 1,200 |
| SQUID. | 816,200 | 61,202 | 8,300 | 186 | - | - |
| TOTAL. | 5,301,400 | 396,498 | 1,618,400 | 93,599 | 3,014,700 | 1,571,505 |

| SPECIES | GILL NETS | | | | LINES | |
|---------------------------------|----------------------|----------|--------|--------|-----------|---------|
| | ANCHOR, SET OR STAKE | | DRIFT | | HAND | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BLUEFISH. | - | - | - | - | 14,500 | \$2,699 |
| BUTTERFISH. | - | - | 100 | \$16 | 100 | 8 |
| COD. | 1,555,400 | \$94,421 | - | - | 752,200 | 48,989 |
| CUSK. | 3,100 | 119 | - | - | 600 | 26 |
| FOUNDERS: | | | | | | |
| BLACKBACK. | 61,600 | 4,086 | - | - | 3,400 | 399 |
| FLUKE. | - | - | - | - | 12,000 | 1,925 |
| GRAY SOLE. | - | - | - | - | 700 | 54 |
| LEMON SOLE. | - | - | - | - | 300 | 31 |
| YELLOWTAIL. | 1,900 | 86 | - | - | - | - |
| HADDOCK. | 181,200 | 13,784 | - | - | 220,100 | 15,377 |
| HAKE: | | | | | | |
| RED. | - | - | - | - | 100 | 4 |
| WHITE. | 105,700 | 4,164 | - | - | 200 | 9 |
| HALIBUT. | 100 | 49 | - | - | 1,600 | 560 |
| MACKEREL. | - | - | 53,800 | 13,583 | 4,300 | 1,088 |
| POLLOCK. | 590,700 | 21,131 | - | - | 222,900 | 8,391 |
| SHAD. | 900 | 58 | - | - | - | - |
| SHARKS, UNCLASSIFIED. | 4,500 | 164 | 5,000 | 131 | 400 | 16 |
| STRIPED BASS. | - | - | - | - | 168,300 | 28,616 |
| STURGEON. | 700 | 94 | - | - | - | - |
| TAUTOG. | 100 | 1 | - | - | - | - |
| TUNA, BLUEFIN. | 800 | 81 | - | - | 1,200 | 109 |
| WHITING. | 200 | 6 | 100 | 1 | - | - |
| WOLFFISH. | - | - | - | - | 200 | 14 |
| UNCLASSIFIED, FOR FOOD. | 405,700 | 26,218 | - | - | 100,200 | 5,725 |
| TOTAL. | 2,912,600 | 164,462 | 59,000 | 13,731 | 1,503,300 | 114,040 |

| SPECIES | LINES - CONTINUED | | | | | |
|---------------------|-------------------|-------|---------------------------|-----------|----------|-------|
| | TROLL | | LONG OR SET WITH HOOKS | | DIP NETS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| COD. | - | - | 2,183,300 | \$143,645 | - | - |
| CUSK. | - | - | 325,700 | 16,697 | - | - |
| FOUNDERS: | | | | | | |
| BLACKBACK. | - | - | 79,400 | 12,486 | - | - |
| GRAY SOLE. | - | - | 800 | 193 | - | - |
| LEMON SOLE. | - | - | 1,900 | 218 | - | - |
| YELLOWTAIL. | - | - | 2,100 | 191 | - | - |
| HADDOCK. | - | - | 2,391,900 | 213,080 | - | - |
| HAKE: | | | | | | |
| RED. | - | - | 1,200 | 68 | - | - |
| WHITE. | - | - | 75,900 | 4,834 | - | - |
| HALIBUT. | - | - | 45,800 | 18,992 | - | - |
| MACKEREL. | - | - | 800 | 220 | - | - |
| POLLOCK. | - | - | 62,800 | 2,788 | - | - |

(CONTINUED ON NEXT PAGE)

NEW ENGLAND FISHERIES

MASSACHUSETTS - CATCH BY GEAR, 1961 - Continued

| SPECIES | LINES - CONTINUED | | | | DIP NETS | | | |
|----------------------------------|-------------------|-----------|------------------------|-----------|----------------|-----------|---------|-------|
| | TROLL | | LONG OR SET WITH HOOKS | | | | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | | |
| SHARKS: | | | | | | | | |
| GRAYFISH | - | - | 300 | \$11 | - | - | | |
| UNCLASSIFIED | - | - | 1,200 | 81 | - | - | | |
| SKATES | - | - | 600 | 27 | - | - | | |
| TUNA, BLUEFIN | 2,200 | \$113 | - | - | - | - | | |
| WOLFFISH | - | - | 13,400 | 612 | - | - | | |
| UNCLASSIFIED, FOR FOOD | - | - | 34,300 | 2,396 | - | - | | |
| SCALLOPS, BAY | - | - | - | - | 29,800 | \$27,022 | | |
| TOTAL | 2,200 | 113 | 5,221,400 | 418,539 | 29,800 | 27,022 | | |
| SPECIES | LIFT NETS | | HARPOONS | | SPEARS | | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | | |
| | | | | | | | | |
| ALEWIVES | 500,000 | \$3,750 | - | - | - | - | | |
| EELS, COMMON | - | - | - | - | 5,200 | \$968 | | |
| SHARKS | - | - | 1,100 | \$41 | - | - | | |
| SWORDFISH | - | - | 693,700 | 267,640 | - | - | | |
| TUNA, BLUEFIN | - | - | 68,400 | 5,311 | - | - | | |
| TOTAL | 500,000 | 3,750 | 763,200 | 272,992 | 5,200 | 968 | | |
| SPECIES | DREDGES | | TONGS | | RAKES | | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | | |
| | | | | | | | | |
| COD | 900 | \$45 | - | - | - | - | | |
| FLOUNDERS: | | | | | | | | |
| BLACKBACK | 5,600 | 525 | - | - | - | - | | |
| DAB | 200 | 10 | - | - | - | - | | |
| FLUKE | 1,000 | 180 | - | - | - | - | | |
| LEMON SOLE | 5,500 | 879 | - | - | - | - | | |
| YELLOWTAIL | 74,700 | 4,077 | - | - | - | - | | |
| UNCLASSIFIED, FOR FOOD | 200 | 24 | - | - | - | - | | |
| CLAMS: | | | | | | | | |
| HARD: | | | | | | | | |
| PUBLIC | 547,500 | 168,587 | 243,100 | \$169,476 | 772,000 | \$533,236 | | |
| PRIVATE | - | - | - | - | 12,600 | 12,650 | | |
| SOFT, PUBLIC | - | - | - | - | 57,200 | 49,394 | | |
| SURF | 5,500 | 875 | 6,600 | 1,200 | - | - | | |
| MUSSELS, SEA | 370,000 | 27,750 | 5,400 | 722 | - | - | | |
| OYSTERS, MARKET: | | | | | | | | |
| PUBLIC: | | | | | | | | |
| SPRING | 4,100 | 3,803 | 6,500 | 6,600 | 6,600 | 5,000 | | |
| FALL | 8,700 | 7,791 | 10,700 | 10,568 | - | - | | |
| PRIVATE: | | | | | | | | |
| SPRING | 3,700 | 5,166 | - | - | - | - | | |
| FALL | - | - | 37,200 | 54,675 | - | - | | |
| SCALLOPS: | | | | | | | | |
| BAY | 543,000 | 536,417 | - | - | - | - | | |
| SEA | 21,032,600 | 8,009,204 | - | - | - | - | | |
| IRISH MOSS | - | - | - | - | 1,578,500 | 32,643 | | |
| TOTAL | 22,603,400 | 8,785,333 | 309,500 | 243,241 | 2,426,900 | 632,923 | | |
| SPECIES | HOES | | FORKS | | DIVING OUTFITS | | BY HAND | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| | | | | | | | | |
| LOBSTERS, NORTHERN | - | - | - | - | 39,400 | \$20,220 | 1,300 | \$695 |
| CLAMS: | | | | | | | | |
| HARD, PUBLIC | 88,700 | \$47,433 | - | - | - | - | - | - |
| RAZOR | 24,600 | 7,678 | - | - | - | - | - | - |
| SOFT, PUBLIC | 583,100 | 393,558 | 12,300 | \$7,576 | - | - | - | - |
| MUSSELS, SEA | 600 | 158 | 166,700 | 12,502 | - | - | - | - |
| OYSTERS, MARKET, PUBLIC: | | | | | | | | |
| SPRING | - | - | 2,600 | 2,597 | - | - | - | - |
| FALL | - | - | 3,200 | 2,841 | - | - | - | - |
| BLOODWORMS | 4,100 | 3,600 | - | - | - | - | - | - |
| SANDWORMS | 33,700 | 29,596 | - | - | - | - | - | - |
| TOTAL | 734,800 | 482,223 | 185,000 | 25,516 | 39,400 | 20,220 | 1,300 | 695 |

NEW ENGLAND FISHERIES

127

RHODE ISLAND

OPERATING UNITS BY GEAR, 1961

| ITEM | HAUL SEINES, COMMON | PURSE SEINES | | OTTER TRAWLS, FISH | FLOATING TRAPS | FYKE AND HOOP NETS, FISH | |
|--------------------------|------------------------|------------------------------|---------------|-----------------------|--|--|---------------|
| | | MACKEREL | MENHADEN | | | | |
| FISHERMEN: | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | |
| ON VESSELS | - | 12 | 46 | 240 | 49 | - | |
| ON BOATS AND SHORE: | | | | | | | |
| REGULAR | 6 | - | - | 14 | 3 | 2 | |
| CASUAL | 2 | 2 | - | 11 | - | - | |
| TOTAL | 8 | 14 | 46 | 265 | 52 | 2 | |
| VESSELS, MOTOR | - | 1 | 6 | 71 | 6 | - | |
| GROSS TONNAGE | - | 65 | 355 | 2,212 | 151 | - | |
| BOATS: | | | | | | | |
| MOTOR | 1 | 2 | 6 | 13 | 3 | 2 | |
| OTHER | 3 | 1 | 3 | - | 13 | - | |
| GEAR: | | | | | | | |
| NUMBER | 4 | 2 | 6 | 84 | 14 | 12 | |
| LENGTH, YARDS | 883 | 600 | 1,950 | - | - | - | |
| YARDS AT MOUTH | - | - | - | 1,973 | - | - | |
| ITEM | POTS AND TRAPS | | | | GILL NETS, ANCHOR, SET OR STAKE | LINES | |
| | CONCH | CRAB | EEL | LOBSTER | | | |
| FISHERMEN: | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | |
| ON VESSELS | - | 4 | - | 6 | 2 | 30 | |
| ON BOATS AND SHORE: | | | | | | | |
| REGULAR | 11 | 12 | 8 | 90 | - | 12 | |
| CASUAL | - | - | - | 54 | - | 65 | |
| TOTAL | 11 | 16 | 8 | 150 | 2 | 127 | |
| VESSELS, MOTOR | - | 2 | - | 3 | 1 | 11 | |
| GROSS TONNAGE | - | 21 | - | 29 | 12 | 218 | |
| BOATS, MOTOR | 7 | 7 | 8 | 112 | 1 | 54 | |
| GEAR: | | | | | | | |
| NUMBER | 500 | 1,320 | 396 | 9,496 | 1 | 149 | |
| SQUARE YARDS | - | - | - | - | 486 | - | |
| HOOKS | - | - | - | - | - | 268 | |
| ITEM | LINES - CONTINUED | | | HARPOONS | SPEARS | DREDGES | |
| | TROLL | LONG OR SET WITH HOOKS | | | | CLAM | MUSSEL |
| FISHERMEN: | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| ON VESSELS | 11 | 2 | 56 | - | 14 | - | 2 |
| ON BOATS AND SHORE: | | | | | | | |
| REGULAR | - | 8 | 4 | 2 | 14 | - | - |
| CASUAL | 6 | 2 | 2 | - | - | - | - |
| TOTAL | 17 | 12 | 62 | 2 | 28 | - | 2 |
| VESSELS, MOTOR | 5 | 1 | 16 | - | 7 | - | 1 |
| GROSS TONNAGE | 78 | 8 | 547 | - | 122 | - | 16 |
| BOATS: | | | | | | | |
| MOTOR | 4 | 6 | 3 | 2 | 7 | - | - |
| OTHER | - | - | 17 | - | - | - | - |
| GEAR: | | | | | | | |
| NUMBER | 17 | 10 | 19 | 2 | 14 | - | 1 |
| YARDS AT MOUTH | - | - | - | - | 14 | - | 2 |
| HOOKS | 30 | 7,044 | - | - | - | - | - |
| ITEM | DREDGES - CONTINUED | TONGS | | RAKES | HOES | TOTAL, EXCLUSIVE OF DUPLI- CATION | |
| | SCALLOP | OYSTER | OTHER | | | | |
| FISHERMEN: | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | |
| ON VESSELS | - | - | - | - | - | 380 | |
| ON BOATS AND SHORE: | | | | | | | |
| REGULAR | 8 | 4 | 475 | 119 | 7 | 595 | |
| CASUAL | 13 | 2 | 471 | 117 | - | 623 | |
| TOTAL | 21 | 6 | 946 | 236 | 7 | 1,598 | |
| VESSELS, MOTOR | - | - | - | - | - | 101 | |
| GROSS TONNAGE | - | - | - | - | - | 2,936 | |
| BOATS: | | | | | | | |
| MOTOR | 21 | 6 | 946 | 236 | - | 1,135 | |
| OTHER | - | - | - | - | - | 37 | |
| GEAR: | | | | | | | |
| NUMBER | 42 | 6 | 946 | 236 | 7 | - | |
| YARDS AT MOUTH | 33 | - | - | - | - | - | |

NEW ENGLAND FISHERIES

RHODE ISLAND - CATCH BY GEAR, 1961

| SPECIES | HAUL SEINES | | PURSE SEINES | | OTTER TRAWLS | |
|--|-------------|-------|--------------|---------|--------------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ANGLERFISH | - | - | - | - | 200 | \$7 |
| BLUEFISH | 1,500 | \$212 | 5,000 | \$479 | 1,000 | 127 |
| BUTTERFISH | - | - | - | - | 2,825,000 | 227,460 |
| COD | - | - | - | - | 761,600 | 47,499 |
| EELS: | | | | | | |
| COMMON | 800 | 118 | - | - | - | - |
| CONGER | - | - | - | - | 4,800 | 216 |
| FLOUNDERS: | | | | | | |
| BLACKBACK | - | - | - | - | 2,027,200 | 129,242 |
| DAB | - | - | - | - | 45,600 | 5,345 |
| FLUKE | - | - | - | - | 839,600 | 156,323 |
| GRAY SOLE | - | - | - | - | 18,000 | 2,012 |
| LEMON SOLE | - | - | - | - | 8,200 | 1,235 |
| YELLOWTAIL | - | - | - | - | 2,338,100 | 174,970 |
| HADDOCK | - | - | - | - | 63,800 | 3,758 |
| HAKE: | | | | | | |
| RED | - | - | - | - | 50,300 | 927 |
| WHITE | - | - | - | - | 9,900 | 432 |
| HERRING, SEA | - | - | - | - | 163,300 | 5,995 |
| KING WHITING OR "KINGFISH" | - | - | - | - | 500 | 50 |
| MACKEREL | - | - | 66,500 | 4,008 | 6,700 | 1,344 |
| MENHADEN | - | - | 22,616,100 | 192,236 | 300 | 12 |
| POLLOCK | - | - | - | - | 5,800 | 196 |
| SCUP OR PORGY | - | - | 52,700 | 3,687 | 2,247,900 | 164,893 |
| SEA BASS | - | - | - | - | 56,300 | 10,869 |
| SEA ROBIN | - | - | - | - | 3,000 | 96 |
| SEA TROUT OR WEAKFISH, GRAY | - | - | - | - | 300 | 52 |
| SHARKS: | | | | | | |
| GRAYFISH | - | - | - | - | 200 | 7 |
| UNCLASSIFIED | - | - | - | - | 700 | 27 |
| SKATES | - | - | - | - | 1,500 | 68 |
| STRIPED BASS | 10,600 | 1,786 | - | - | 1,600 | 254 |
| STURGEON | - | - | - | - | 1,100 | 107 |
| TAUTOG | - | - | - | - | 24,100 | 881 |
| TILEFISH | - | - | - | - | 284,400 | 23,716 |
| WHITE PERCH | 5,700 | 819 | - | - | - | - |
| WHITING | - | - | - | - | 4,761,500 | 114,254 |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | 200 | 32 | - | - | 69,400 | 4,370 |
| BAIT, REDUCTION, AND ANIMAL FOOD | - | - | - | - | 33,944,300 | 164,007 |
| LOBSTERS, NORTHERN | - | - | - | - | 293,200 | 132,076 |
| SCALLOPS, SEA | - | - | - | - | 100 | 37 |
| SQUID | - | - | - | - | 179,900 | 18,904 |
| TOTAL | 18,800 | 2,967 | 22,740,300 | 200,410 | 51,039,600 | 1,391,768 |

| SPECIES | FLOATING TRAPS | | FYKE AND HOOP NETS | | POTS AND TRAPS | |
|---------------------------------------|----------------|---------|--------------------|-------|----------------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ANCHOVIES | 18,600 | \$1,662 | - | - | - | - |
| BLUEFISH | 41,100 | 6,023 | - | - | - | - |
| BONITO | 29,500 | 4,329 | - | - | - | - |
| BUTTERFISH | 122,200 | 24,383 | - | - | - | - |
| COD | 91,200 | 7,974 | - | - | - | - |
| EELS, COMMON | - | - | - | - | 43,800 | \$8,344 |
| FLOUNDERS: | | | | | | |
| BLACKBACK | 900 | 87 | - | - | - | - |
| FLUKE | 107,600 | 21,351 | - | - | - | - |
| HAKE, RED | 900 | 18 | - | - | - | - |
| HERRING, SEA | 25,000 | 1,613 | - | - | - | - |
| KING MACKEREL | 2,200 | 456 | - | - | - | - |
| KING WHITING OR "KINGFISH" | 300 | 30 | - | - | - | - |
| MACKEREL | 97,600 | 21,884 | - | - | - | - |
| MENHADEN | 19,200 | 192 | - | - | - | - |
| POLLOCK | 8,300 | 324 | - | - | - | - |
| SCUP OR PORGY | 4,804,200 | 176,822 | - | - | - | - |
| SEA BASS | 112,900 | 25,128 | - | - | - | - |
| SEA ROBIN | 167,800 | 2,526 | - | - | - | - |
| SEA TROUT OR WEAKFISH, GRAY | 900 | 153 | - | - | - | - |
| SHAD | 4,400 | 259 | - | - | - | - |
| SHARKS: | | | | | | |
| GRAYFISH | 100 | 3 | - | - | - | - |
| UNCLASSIFIED | 300 | 5 | - | - | - | - |
| SKATES | 100 | 5 | - | - | - | - |
| SPANISH MACKEREL | 400 | 79 | - | - | - | - |
| STRIPED BASS | 126,800 | 19,589 | - | - | - | - |
| STURGEON | 300 | 48 | - | - | - | - |

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NEW ENGLAND FISHERIES

129

RHODE ISLAND - CATCH BY GEAR, 1961 - Continued

| SPECIES | FLOATING TRAPS | | FYKE AND HOOP NETS | | POTS AND TRAPS | |
|--|----------------|---------|--------------------|-------|----------------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| SWORDFISH | 100 | \$58 | - | - | - | - |
| TAUTOG | 23,500 | 589 | - | - | - | - |
| TUNA, BLUEFIN | 24,200 | 4,214 | - | - | - | - |
| WHITE PERCH | - | - | 2,300 | \$380 | - | - |
| WHITING | 259,500 | 9,684 | - | - | - | - |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | 30,300 | 5,034 | - | - | - | - |
| BAIT, REDUCTION, AND ANIMAL FOOD | 62,000 | 392 | - | - | - | - |
| CRABS: | | | | | | |
| GREEN | - | - | - | - | 29,400 | \$3,500 |
| ROCK | - | - | - | - | 212,600 | 22,293 |
| LOBSTERS, NORTHERN | - | - | - | - | 387,200 | 235,141 |
| CONCHS | - | - | - | - | 42,700 | 8,521 |
| SQUID | 121,100 | 16,053 | - | - | - | - |
| TOTAL | 6,322,700 | 351,221 | 2,300 | 380 | 715,700 | 277,799 |

| SPECIES | GILL NETS, ANCHOR, SET OR STAKE | | LINES | | | |
|----------------------------------|---------------------------------|-------|---------|--------|--------|-------|
| | | | HAND | | TROLL | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BLUEFISH | 200 | \$29 | 100 | \$7 | 100 | \$12 |
| BONITO | - | - | - | - | 200 | 21 |
| COD | - | - | 117,200 | 7,191 | - | - |
| EELS, CONGER | - | - | 100 | 9 | - | - |
| FLOUNDERS: | | | | | | |
| BLACKBACK | - | - | 100 | 4 | - | - |
| FLUKE | - | - | 300 | 44 | - | - |
| HADDOCK | - | - | 100 | 4 | - | - |
| HAKE, WHITE | - | - | 100 | 2 | - | - |
| POLLOCK | - | - | 100 | 10 | - | - |
| SCUP OR PORGY | 200 | 22 | 300 | - | - | - |
| SEA BASS | - | - | 900 | 300 | - | - |
| STRIPED BASS | 100 | 17 | 23,400 | 3,600 | 4,000 | 527 |
| SWORDFISH | - | - | - | - | 300 | 128 |
| TAUTOG | - | - | 3,600 | 304 | - | - |
| TUNA, BLUEFIN | - | - | 2,500 | 238 | 9,600 | 925 |
| UNCLASSIFIED, FOR FOOD | - | - | 300 | 27 | - | - |
| TOTAL | 500 | 68 | 149,200 | 11,740 | 14,200 | 1,613 |

| SPECIES | LINES - CONTINUED | | HARPOONS | | SPEARS | |
|-------------------------|------------------------|---------|----------|----------|--------|-------|
| | LONG OR SET WITH HOOKS | | | | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| COD | 95,700 | \$6,109 | - | - | - | - |
| EELS, COMMON | - | - | - | - | 400 | \$68 |
| SWORDFISH | - | - | 127,100 | \$48,745 | - | - |
| TUNA, BLUEFIN | - | - | 1,500 | 435 | - | - |
| TOTAL | 95,700 | 6,109 | 128,600 | 49,180 | 400 | 68 |

| SPECIES | DREDGES | | TONGS | | RAKES | | HOES | |
|--------------------------|---------|----------|-----------|-----------|---------|-----------|--------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| CLAMS: | | | | | | | | |
| HARD, PUBLIC | 65,600 | \$21,110 | 2,033,500 | \$777,193 | 508,400 | \$194,300 | - | - |
| OCEAN QUAHOG | 124,400 | 12,440 | - | - | - | - | - | - |
| SOFT, PUBLIC | - | - | - | - | - | - | 7,000 | \$4,320 |
| CONCHS | 300 | 66 | - | - | - | - | - | - |
| MUSSELS, SEA | 70,000 | 7,000 | - | - | - | - | - | - |
| OYSTERS, MARKET, PUBLIC: | | | | | | | | |
| SPRING | - | - | 3,000 | 2,427 | - | - | - | - |
| FALL | - | - | 4,500 | 3,640 | - | - | - | - |
| SCALLOPS, BAY | 1,700 | 1,627 | - | - | - | - | - | - |
| TOTAL | 262,000 | 42,243 | 2,041,000 | 783,260 | 508,400 | 194,300 | 7,000 | 4,320 |



NEW ENGLAND FISHERIES CONNECTICUT

OPERATING UNITS BY GEAR, 1961

| ITEM | HAUL SEINES, COMMON | OTTER TRAWLS, FISH | FYKE AND HOOP NETS, FISH | POTS AND TRAPS | | | |
|--------------------------|-----------------------------|--------------------------|--------------------------------|----------------|------------------------|----------|--|
| | | | | CONCH | EEL | LOBSTER | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| FISHERMEN: | | | | | | | |
| ON VESSELS | - | 92 | - | - | - | 8 | |
| ON BOATS AND SHORE: | | | | | | | |
| REGULAR | - | 11 | - | 4 | 4 | 24 | |
| CASUAL | 17 | 37 | 2 | 9 | 28 | 109 | |
| TOTAL | 17 | 140 | 2 | 13 | 32 | 141 | |
| VESSELS, MOTOR | - | 36 | - | - | - | 5 | |
| GROSS TONNAGE | - | 995 | - | - | - | 47 | |
| BOATS: | | | | | | | |
| MOTOR | 6 | 34 | 2 | 11 | 28 | 97 | |
| OTHER | 3 | - | - | - | 1 | - | |
| GEAR: | | | | | | | |
| NUMBER | 8 | 70 | 8 | 278 | 516 | 7,913 | |
| LENGTH, YARDS | 744 | - | - | - | - | - | |
| YARDS AT MOUTH | - | 1,299 | - | - | - | - | |
| ITEM | GILL NETS | | | LINES, HAND | DIP NETS, COMMON | HARPOONS | |
| | ANCHOR, SET, OR STAKE | DRIFT | | | | | |
| | | SHAD | OTHER | | | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| FISHERMEN: | | | | | | | |
| ON VESSELS | - | - | 2 | 3 | - | - | |
| ON BOATS AND SHORE: | | | | | | | |
| REGULAR | 1 | 18 | 2 | 5 | 63 | - | |
| CASUAL | 12 | 130 | 5 | 35 | 334 | 4 | |
| TOTAL | 20 | 148 | 9 | 43 | 397 | 4 | |
| VESSELS, MOTOR | - | - | 1 | 2 | - | - | |
| GROSS TONNAGE | - | - | 17 | 53 | - | - | |
| BOATS: | | | | | | | |
| MOTOR | 5 | 54 | 6 | 33 | 391 | 2 | |
| OTHER | 6 | 15 | - | - | - | - | |
| GEAR: | | | | | | | |
| NUMBER | 10 | 60 | 7 | 43 | 397 | 2 | |
| SQUARE YARDS | 1,913 | 93,993 | 1,309 | - | - | - | |
| HOOCS | - | - | - | 79 | - | - | |
| ITEM | SPEARS | DREDGES | | TONGS | | HOES | TOTAL, EXCLUSIVE OF DUPLI- CATION |
| | | CLAM | OYSTER, COMMON | OYSTER | OTHER | | |
| | | NUMBER | NUMBER | NUMBER | NUMBER | | |
| FISHERMEN: | | | | | | | |
| ON VESSELS | - | 16 | 34 | - | - | - | 143 |
| ON BOATS AND SHORE: | | | | | | | |
| REGULAR | - | - | - | 3 | 1 | 1 | 104 |
| CASUAL | 1 | - | - | 8 | 5 | 5 | 630 |
| TOTAL | 1 | 16 | 34 | 11 | 6 | 6 | 877 |
| VESSELS, MOTOR | - | 6 | 11 | - | - | - | 55 |
| GROSS TONNAGE | - | 197 | 260 | - | - | - | 1,480 |
| BOATS: | | | | | | | |
| MOTOR | 1 | - | - | 9 | 5 | - | 578 |
| OTHER | - | - | - | - | - | - | 24 |
| GEAR: | | | | | | | |
| NUMBER | 1 | 6 | 21 | 11 | 6 | 6 | - |
| YARDS AT MOUTH | - | 6 | 26 | - | - | - | - |



NEW ENGLAND FISHERIES

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CONNECTICUT - CATCH BY GEAR, 1961

| SPECIES | HAUL SEINES | | OTTER TRAMLS | | FYKE AND HOOP NETS | |
|--|-------------|-------|--------------|---------|--------------------|-------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | 200 | \$2 | 3,000 | \$30 | - | - |
| BLUEFISH | - | - | 1,400 | 366 | - | - |
| BUTTERFISH | - | - | 89,500 | 7,749 | - | - |
| CARP | 1,600 | 160 | - | - | - | - |
| COD | - | - | 363,800 | 22,639 | - | - |
| CUNNER | - | - | 100 | 4 | - | - |
| FLOUNDERS: | | | | | | |
| BLACKBACK | 200 | 8 | 977,600 | 62,468 | - | - |
| DAB | - | - | 6,500 | 758 | - | - |
| FLUKE | - | - | 154,400 | 29,276 | - | - |
| GRAY SOLE | - | - | 8,500 | 952 | - | - |
| LEMON SOLE | - | - | 300 | 77 | - | - |
| YELLOWTAIL | - | - | 106,900 | 7,695 | - | - |
| HADDOCK | - | - | 18,200 | 1,078 | - | - |
| HAKE, RED | - | - | 30,200 | 544 | - | - |
| HERRING, SEA | - | - | 83,400 | 3,061 | - | - |
| LAMPREY | - | - | - | - | 800 | \$98 |
| MACKEREL | - | - | 8,500 | 1,670 | - | - |
| MENHADEN | - | - | 1,000 | 10 | - | - |
| POLLOCK | - | - | 1,600 | 53 | - | - |
| SCUP OR PORGY | - | - | 991,400 | 69,178 | - | - |
| SEA BASS | - | - | 39,900 | 7,214 | - | - |
| SEA ROBIN | - | - | 22,100 | 402 | - | - |
| SEA TROUT OR WEAKFISH, GRAY | - | - | 2,200 | 252 | - | - |
| SHAD | 24,700 | 4,232 | 1,100 | 66 | - | - |
| SHARKS: | | | | | | |
| GRAYFISH | - | - | 3,400 | 66 | - | - |
| UNCLASSIFIED | - | - | 4,700 | 67 | - | - |
| SILVERSIDES | - | - | 700 | 109 | - | - |
| SKATES | - | - | 2,700 | 77 | - | - |
| SMELT | 700 | 137 | - | - | - | - |
| STRIPED BASS | - | - | 4,500 | 785 | - | - |
| STURGEON | - | - | 8,700 | 1,053 | - | - |
| SUCKERS | 3,000 | 60 | - | - | 2,000 | 40 |
| TALUOG | - | - | 21,100 | 885 | - | - |
| TILEFISH | - | - | 100 | 11 | - | - |
| WHITING | - | - | 766,600 | 18,525 | - | - |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | - | - | 29,000 | 1,838 | - | - |
| BAIT, REDUCTION, AND ANIMAL FOOD | 400 | 9 | 559,700 | 7,339 | - | - |
| LOBSTERS, NORTHERN | - | - | 200 | 70 | - | - |
| CONCHS | - | - | 2,400 | 278 | - | - |
| SQUID | - | - | 51,600 | 4,760 | - | - |
| TOTAL | 30,800 | 4,608 | 4,367,000 | 251,405 | 2,800 | 138 |

| SPECIES | POTS AND TRAPS | | GILL NETS | | | |
|--|----------------|---------|----------------------|-------|---------|--------|
| | | | ANCHOR, SET OR STAKE | | DRIFT | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | - | - | 1,000 | \$10 | - | - |
| CARP | - | - | 100 | 12 | 1,600 | \$126 |
| EELS, COMMON | 12,300 | \$2,099 | - | - | - | - |
| MACKEREL | - | - | - | - | 3,600 | 718 |
| MENHADEN | - | - | - | - | 11,300 | 129 |
| SHAD | - | - | 6,000 | 1,028 | 431,600 | 73,690 |
| UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD | - | - | - | - | 6,800 | 92 |
| LOBSTERS, NORTHERN | 206,400 | 129,853 | - | - | - | - |
| CONCHS | 62,400 | 10,159 | - | - | - | - |
| TOTAL | 281,100 | 142,111 | 7,100 | 1,050 | 454,900 | 74,955 |

| SPECIES | LINES, HAND | | DIP NETS | | HARPOONS | |
|------------------------|-------------|---------|----------|-------|----------|-------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | - | - | 1,800 | \$30 | - | - |
| BLUEFISH | 9,500 | \$2,311 | - | - | - | - |
| COD | 35,800 | 2,291 | - | - | - | - |
| EELS, COMMON | 800 | 161 | - | - | - | - |
| FLOUNDERS: | | | | | | |
| BLACKBACK | 2,200 | 177 | - | - | - | - |
| FLUKE | 900 | 137 | - | - | - | - |

(CONTINUED ON NEXT PAGE)

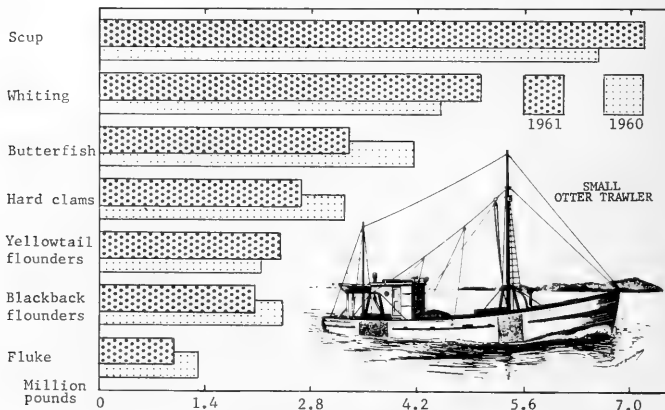
NEW ENGLAND FISHERIES

CONNECTICUT - CATCH BY GEAR, 1961 - Continued

| SPECIES | LINES, HAND | | DIP NETS | | HARPOONS | |
|--|-------------|--------|----------|---------|----------|-------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| HADDOCK | 400 | \$28 | - | - | - | - |
| HAKE, WHITE | 100 | 2 | - | - | - | - |
| MACKEREL | 10,800 | 2,331 | - | - | - | - |
| POLLOCK | 1,000 | 43 | - | - | - | - |
| SCUP OR PORGY | 500 | 50 | - | - | - | - |
| SEA BASS | 2,100 | 575 | - | - | - | - |
| SHARKS: | | | | | | |
| GRAYFISH | 500 | 5 | - | - | - | - |
| UNCLASSIFIED | 600 | 11 | - | - | - | - |
| STRIPED BASS | 15,800 | 2,636 | - | - | - | - |
| SWORDFISH | - | - | - | - | 1,000 | \$597 |
| TAUTOG | 3,400 | 237 | - | - | - | - |
| UNCLASSIFIED, BAIT, REDUCTION, AND ANIMAL FOOD. | 100 | 5 | - | - | - | - |
| CRABS, BLUE, HARD | - | - | 3,500 | \$921 | - | - |
| SCALLOPS, BAY | - | - | 128,500 | 105,459 | - | - |
| TOTAL | 84,500 | 11,200 | 133,800 | 106,410 | 1,000 | 597 |

| SPECIES | SPEARS | | DREDGES | | TONGS | | HOES | |
|--------------------------|--------|-------|---------|-----------|--------|-------|--------|-------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| EELS, COMMON | 200 | \$38 | - | - | - | - | - | - |
| CLAMS: | | | | | | | | |
| HARD, PUBLIC | - | - | 418,700 | \$175,874 | 900 | \$389 | - | - |
| SOFT, PUBLIC | - | - | - | - | - | - | 400 | \$254 |
| OYSTERS, MARKET: | | | | | | | | |
| PUBLIC, SPRING | - | - | - | - | 4,100 | 2,853 | - | - |
| PRIVATE: | | | | | | | | |
| SPRING | - | - | 108,900 | 138,335 | 100 | 70 | - | - |
| FALL | - | - | 245,500 | 275,625 | - | - | - | - |
| TOTAL | 200 | 38 | 773,100 | 569,834 | 5,100 | 3,312 | 400 | 254 |

RHODE ISLAND CATCH 1960-61



LANDINGS AT MAINE PORTS

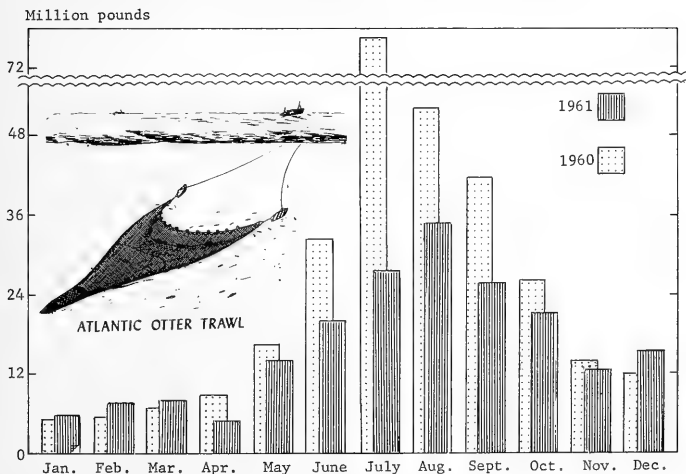
The Bureau of Commercial Fisheries, in cooperation with the Maine Department of Sea and Shore Fisheries, collects and compiles monthly and annual data on the landings of fish, shellfish, and other aquatic resources in the State of Maine. This information is published in the monthly bulletin, *Maine Landings*, in the Current Fishery Statistics series of reports. Additional detailed tabulations are prepared for the use of Bureau and State scientists and the International Commission for the Northwest Atlantic Fisheries.

Maine landings data, summarized by species and months, appeared in *Digests* for the years from 1947 to 1958. Since the latter year, information on the Maine catch by gear and subarea has been substituted for the monthly tabulations. The quantities shown represent the round weight of all species except univalve and bivalve mollusks. These shellfish are reported in pounds of meats. The data are comparable with catch figures shown in other tables in this report.

In 1961, landings at Maine ports by fishing craft of all sizes amounted to 198 million pounds --down nearly 94 million pounds compared with the previous year. The decrease was caused by a sharp reduction in landings of sea herring, which dropped to 54 million pounds from 152 million pounds in 1960. The decline of this fishery resulted from failure of the herring to move in quantity into the shallow waters where they are usually taken. Late in the season, a few purse seiners fished the offshore waters with limited success. Landings of haddock, ocean perch, crabs, and lobsters also fell below the 1960 level.

The 1961 landings of whiting and sea scallops gained slightly over those of the previous year. However, the greatest increase occurred in the production of sea moss, which yielded over 5 million pounds in 1961 compared with about 500,000 pounds in 1960.

LANDINGS AT MAINE PORTS, BY MONTHS, 1960-61



NEW ENGLAND FISHERIES

LANDINGS AT MAINE PORTS
SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1961

| GEAR AND SUBAREA | | CRAFT FISHING | | TRIPS | | DAYS ABSENT | | DAYS FISHED | | COD, DRAWN | | | FLOUNDERS, ROUND | | |
|------------------------------|--------|---------------|--------|--------|--------|-------------|--------|-------------|--------|------------|--------|--------|------------------|------------|-------------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | POUNDS | MARKET | SCROD | POUNDS | POUNDS | GRAY SOLE | LEMON SOLE | YELLOW-TAIL |
| LONG LINES (TRAWL LINES): | | | | | | | | | | | | | | | |
| CENTRAL MAINE | 59 | 569.0 | 569 | 285.0 | 3,571 | 41,568 | | | | | | | | | |
| WESTERN MAINE | 27 | 204.0 | 204 | 68.6 | 39,034 | 145,292 | | | | | | | | | |
| TOTAL | 1/74 | 773.0 | 773 | 353.6 | 3,771 | 166,860 | | | | | | | | | |
| HAND LINES: | | | | | | | | | | | | | | | |
| CENTRAL MAINE | 38 | 148.0 | 148 | 74.0 | 31,382 | 843 | | | | | | | | | |
| WESTERN MAINE | 26 | 106.0 | 106 | 53.0 | 33,811 | 2,830 | | | | | | | | | 85 |
| TOTAL | 1/53 | 254.0 | 254 | 127.0 | 65,193 | 3,673 | | | | | | | | | 85 |
| HARPOONS: | | | | | | | | | | | | | | | |
| SOUTHWEST GRAND BANK | 1 | | | | | | | | | | | | | | |
| CENTRAL MAINE | 3 | 3.0 | 3 | 1.5 | | | | | | | | | | | |
| WESTERN MAINE | 34 | 124.0 | 124 | 56.4 | | | | | | | | | | | |
| TOTAL | 1/35 | 127.0 | 127 | 59.9 | | | | | | | | | | | |
| OTTER TRAWLS, LARGE: | | | | | | | | | | | | | | | |
| SOUTHEAST GRAND BANK | 19 | 72.7 | 1,066 | 203.8 | | | | | | | | | | | |
| ST. PIERRE BANK | 17 | 59.6 | 691 | 121.1 | | | | | | | | | | | |
| EAST GULF OF ST. LAWRENCE | 3 | 2.6 | 35 | 12.3 | | | | | | | | | | | |
| NORTH GULF OF ST. LAWRENCE | 1 | 1.5 | 23 | 3.3 | | | | | | | | | | | |
| NORTHEAST CAPE BRETON | 4 | 4.8 | 60 | 17.2 | | | | | | | | | | | |
| BANKS BANK | 2 | 1.9 | 172 | 40.3 | | | | | | | | | | | |
| BANKS BANK | 9 | 11.9 | 172 | 40.3 | | | | | | | | | | | |
| CANIS | 6 | 0.5 | 81 | 18.9 | | | | | | | | | | | |
| MIDDLE GROUND | 8 | 7.0 | 81 | 22.6 | | | | | | | | | | | |
| SOUTHEAST SABLE ISLAND BANK | 1 | 0.7 | 12 | 3.0 | | | | | | | | | | | |
| HORSESHOE GROUND | 4 | 8.5 | 91 | 20.6 | | | | | | | | | | | |
| SABLE ISLAND BANK | 10 | 12.2 | 132 | 27.0 | | | | | | | | | | | |
| EASTERN NOVA SCOTIA | 3 | 1.1 | 12 | 2.6 | | | | | | | | | | | |
| EMERALD BANK | 1 | 1.1 | 12 | 2.6 | | | | | | | | | | | |
| CENTRAL NOVA SCOTIA | 6 | 9.5 | 111 | 26.5 | | | | | | | | | | | |
| NORTHEAST BROWNS AND LA HAVE | 12 | 17.6 | 208 | 45.8 | | | | | | | | | | | |
| SOUTHERN NOVA SCOTIA | 10 | 17.0 | 208 | 45.8 | | | | | | | | | | | |
| BANKS BANK | 6 | 2.1 | 189 | 43.3 | | | | | | | | | | | |
| WESTERN NOVA SCOTIA | 1 | 0.5 | 1 | 1.0 | | | | | | | | | | | |
| NORTHERN BAY OF FUNDY | 4 | 0.5 | 4 | 1.0 | | | | | | | | | | | |
| EASTERN MAINE | 5 | 22.7 | 116 | 28.2 | | | | | | | | | | | |
| CENTRAL MAINE | 3 | 1.5 | 6 | 1.8 | | | | | | | | | | | |
| WESTERN MAINE | 2 | 2.0 | 9 | 1.9 | | | | | | | | | | | |
| WESTERN GROUND | 1 | 40.3 | 209 | 48.2 | | | | | | | | | | | |
| WEST SIDE SOUTH CHANNEL | 1 | 1.2 | 1 | 5.6 | | | | | | | | | | | |
| TOTAL | 1/16 | 308.0 | 3,566 | 843.1 | 45,795 | 48,995 | | | | | | | | | |
| OTTER TRAWLS, MEDIUM: | | | | | | | | | | | | | | | |
| EAST GULF OF ST. LAWRENCE | 1 | 0.1 | 1 | 0.5 | | | | | | | | | | | |
| NORTHEAST CAPE BRETON | 2 | 6.9 | 100 | 30.8 | | | | | | | | | | | |
| MI SAINE BANK | 2 | 7.9 | 104 | 31.8 | | | | | | | | | | | |
| CANIS | 1 | 1.0 | 10 | 2.5 | | | | | | | | | | | |
| MIDDLE GROUND | 1 | 1.0 | 10 | 3.1 | | | | | | | | | | | |

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTES AT END OF TABLE.

LANDINGS AT MAINE PORTS SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1961 - Continued

| GEAR AND SUBAREA | CRAB FISHING | | TRIPS | | DAYS ABSENT | | DAYS FISHED | | COD, DRAWN | | | CUSH, DRAWN | | | FLOUNDERS, ROUND | | |
|---|--------------|---------|--------|---------|-------------|-----------|-------------|---------|------------|-------|---------|-------------|--------|-----------|------------------|-------------|--|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | POUNDS | POUNDS | MARKET | SCROD | POUNDS | POUNDS | POUNDS | GRAY SOLE | LEMON SOLE | YELLOW-TAIL | |
| OTTER TRAWLS, MEDIUM - CONTINUED: | | | | | | | | | | | | | | | | | |
| EASTERN NOVA SCOTIA | 1 | 1.0 | 12 | 2.9 | 4,900 | 390 | - | - | 30 | - | 400 | - | - | - | - | - | |
| WESTERN NOVA SCOTIA | 1 | 3.6 | 27 | 15.6 | 1,327 | 7,765 | - | - | 1,034 | - | 1,075 | - | - | - | - | - | |
| WESTERN BROWNS | 3 | 4.8 | 42 | 20.0 | 12,033 | 15,339 | - | - | 6,307 | - | 2,571 | - | - | - | - | - | |
| NORTHERN NOVA SCOTIA | 2 | 40.6 | 262 | 98.0 | 610 | 380 | - | - | 6,307 | - | 200 | - | - | - | - | - | |
| NORTHERN BAY OF FUNDY | 2 | 1.1 | 2 | 2.0 | 57,903 | 81,310 | - | - | 47,184 | - | 47,184 | - | - | - | - | - | |
| EASTERN MAINE | 12 | 71.0 | 420 | 130.5 | 38,559 | 56,279 | - | - | 37,611 | - | 20,606 | - | - | - | - | - | |
| CENTRAL MAINE | 15 | 92.8 | 397 | 121.3 | 48,776 | 37,408 | - | - | 66,336 | - | 29,642 | - | - | - | - | - | |
| WESTERN MAINE | 12 | 105.5 | 383 | 123.8 | 36,201 | 1,275 | - | - | 220,376 | - | 171,814 | - | - | - | - | - | |
| NORWICH, MASSACHUSETTS | 1 | 1.0 | 5 | 2.4 | 247.1 | 1,275 | - | - | 250,629 | - | 220,376 | - | - | - | - | - | |
| INNER GROUNDS | 16 | 133.4 | 743 | 247.1 | 3,700 | 3,110 | - | - | 1,232,630 | 2,118 | 74,210 | 348,930 | 400 | - | - | 65,771 | |
| WEST SIDE SOUTH CHANNEL | 2 | 1.1 | 3 | 1.3 | - | - | - | - | - | - | - | - | - | - | - | - | |
| TOTAL | 126 | 473.0 | 2,520 | 818.8 | 201,271 | 250,629 | - | - | 1,645 | - | 1,645 | - | - | - | - | - | |
| OTTER TRAWLS, SMALL: | | | | | | | | | | | | | | | | | |
| WESTERN BROWNS | 2 | 3.0 | 12 | 5.0 | 160 | 485 | - | - | 1,255 | - | 1,255 | - | - | - | - | - | |
| WESTERN NOVA SCOTIA | 2 | 4.4 | 24 | 8.6 | 1,520 | 1,520 | - | - | 1,520 | - | 1,520 | - | - | - | - | - | |
| EASTERN MAINE | 4 | 27.0 | 130 | 40.0 | 29,496 | 6,400 | - | - | 10,360 | - | 10,360 | - | - | - | - | - | |
| WESTERN MAINE | 33 | 926.3 | 1,050 | 731.9 | 95,500 | 95,500 | - | - | 23,549 | 1,663 | 23,549 | 350 | - | - | - | 66 | |
| INNER GROUNDS | 5 | 25.7 | 143 | 47.3 | 3,700 | 3,110 | - | - | 11,228 | - | 11,228 | - | - | - | - | 50 | |
| TOTAL | 177 | 2,834.0 | 3,424 | 1,316.6 | 123,630 | 252,068 | - | - | 2,118 | 2,118 | 74,210 | 348,930 | 400 | - | - | 65,771 | |
| SINK GILL NETS: | | | | | | | | | | | | | | | | | |
| WESTERN MAINE | 7 | 846.0 | 946 | 846.0 | 507,809 | 161,242 | - | - | - | - | 7,355 | - | - | - | - | - | |
| SCALLOP DREDGES: | | | | | | | | | | | | | | | | | |
| WESTERN MAINE | 3 | 22.0 | 22 | 11.0 | - | - | - | - | - | - | - | - | - | - | - | - | |
| CENTRAL MAINE | 33 | 409.0 | 421 | 205.4 | - | - | - | - | - | - | - | - | - | - | - | - | |
| NORTHERN EDGE AND NORTHEAST PEAK | 8 | 110.7 | 1,029 | 733.8 | - | - | - | - | - | - | - | - | - | - | - | - | |
| CENTRAL AND SOUTHEAST GEORGES | 5 | 12.3 | 114 | 83.3 | - | - | - | - | - | - | - | - | - | - | - | - | |
| TOTAL | 147 | 554.0 | 1,586 | 1,033.5 | - | - | - | - | - | - | - | - | - | - | - | - | |
| TOTAL (LANDED WEIGHT, ALL SPECIES) | - | - | - | - | 1,032,144 | 1,102,768 | 7,443 | 530,442 | 569,739 | 400 | 65,856 | - | - | - | - | - | |
| TOTAL (ROUND WEIGHT, ALL SPECIES <u>2</u>) | - | - | - | - | 1,207,607 | 1,290,226 | 8,708 | 599,399 | 569,739 | 400 | 65,856 | - | - | - | - | - | |
| MISCELLANEOUS GEAR: | | | | | | | | | | | | | | | | | |
| UNCLASSIFIED WATERS OFF MAINE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| GRAND TOTAL (ROUND WEIGHT <u>2</u>) | - | - | - | - | 1,207,607 | 1,290,226 | 8,708 | 599,399 | 569,739 | 400 | 65,856 | - | - | - | - | - | |

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTES AT END OF TABLE.

LANDINGS AT MAINE PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1961 - Continued

| GEAR AND SUBAREA | FLOUNDER'S | | GRAY-FISH ROUND | HADDOCK, DRAWN | | HAKE, WHITE, DRESSED | | HALIBUT, DRAWN | HERRING, SEA | MACKEREL, ROUND | GREEN PEEN ROUND |
|--|------------|--------|-----------------|----------------|---------|----------------------|--------|----------------|--------------|-----------------|------------------|
| | BLACK-BACK | DAB | | LARGE | SCROD | LARGE | SMALL | | | | |
| | | | POUNDS | | | | | POUNDS | POUNDS | POUNDS | POUNDS |
| LONG LINES (TRAWL LINES): | | | | | | | | | | | |
| CENTRAL MAINE | - | 935 | - | 51,554 | 2,454 | 1,203,348 | 30,321 | - | - | - | 70 |
| WESTERN MAINE | - | - | 27,790 | 87,967 | 5,410 | 1,249,260 | 16,328 | - | - | - | - |
| TOTAL | - | 935 | 27,790 | 139,541 | 7,864 | 1,203,596 | 16,328 | 31,570 | - | - | 70 |
| HAND LINES: | | | | | | | | | | | |
| CENTRAL MAINE | - | - | - | 221 | - | 1,676 | - | 3,275 | - | - | - |
| WESTERN MAINE | - | - | - | 515 | - | 3,697 | - | 666 | - | 463 | - |
| TOTAL | - | - | - | 736 | 15 | 5,373 | - | 3,941 | - | 463 | - |
| OTTER TRAWLS, LARGE: | | | | | | | | | | | |
| SOUTHEAST GRAND BANK | - | - | - | 600 | 2,370 | 4,700 | - | 1,520 | - | - | 18,926,639 |
| SOUTHWEST GRAND BANK | - | 805 | - | - | - | - | - | 9,019 | - | - | 13,631,645 |
| ST. PIERRE BANK | - | - | - | - | - | - | - | 469 | - | - | 16,647 |
| EAST GULF OF ST. LAWRENCE | - | - | - | - | - | - | - | - | - | - | 304,664 |
| NORTH GULF OF ST. LAWRENCE | - | - | - | - | - | - | - | - | - | - | 935,417 |
| NORTHEAST CAPE BRETON | - | - | - | - | - | - | - | - | - | - | 285,944 |
| MI-SAINE BANK | - | - | - | - | - | - | - | - | - | - | 1,901,736 |
| CANSO | - | 200 | - | 2,630 | 910 | - | 637 | 1,497 | - | - | 1,122,019 |
| SOUTHEAST SABLE ISLAND BANK | - | 8,145 | - | 630 | 400 | - | 930 | 60 | - | - | 1,312,216 |
| HORSESHOE GROUND | - | 3,785 | - | 1,440 | 4,445 | - | 2,520 | - | - | - | 2,174,659 |
| SOUTHWEST SABLE ISLAND BANK | - | 2,800 | - | 645 | 550 | 1,115 | 643 | - | - | - | 38,640 |
| EMERALD BANK | - | 2,000 | - | 1,465 | 200 | 290 | 1,365 | - | - | - | 2,174,659 |
| CENTRAL NOVA SCOTIA | - | 2,433 | - | 4,200 | 6,235 | 200 | 3,713 | - | - | - | 1,370,611 |
| NORTHEAST BROWNS AND LA HAVÉ | - | 1,360 | - | 18,468 | 5,510 | 1,247 | 1,365 | 161 | - | - | 92,762 |
| SOUTHERN BROWNS | - | 1,324 | - | 16,455 | 6,938 | - | 3,166 | - | - | - | 38,696 |
| WESTERN BROWNS | - | 707 | - | 49,768 | 56,090 | 6,781 | 2,297 | 54 | - | - | 2,174,659 |
| NORTHERN BAY OF FUNDY | - | 130 | - | 2,165 | 2,525 | 280 | 1,430 | - | - | - | 667,960 |
| EASTERN MAINE | - | 4,596 | - | 49,468 | 33,057 | 7,960 | 27,649 | 211 | - | - | 17,600 |
| CENTRAL MAINE | - | 40 | - | 840 | 735 | - | 225 | - | - | - | 45,600 |
| WESTERN MAINE | - | - | - | - | - | - | - | - | - | - | 106,000 |
| LINE GROUND | - | - | - | - | - | - | - | - | - | - | 3,059,818 |
| WEST SIDE SOUTH CHANNEL | - | - | - | - | - | - | - | - | - | - | 106,000 |
| TOTAL | 285 | 31,205 | - | 155,144 | 126,620 | 22,343 | 44,795 | 14,986 | - | - | 53,569,860 |
| OTTER TRAWLS, MEDIUM: | | | | | | | | | | | |
| EAST GULF OF ST. LAWRENCE | - | - | - | - | - | - | - | - | - | - | 2,790 |
| NORTHEAST CAPE BRETON | - | - | - | - | - | - | - | - | - | - | 905,650 |
| MI-SAINE BANK | - | - | - | - | - | - | - | - | - | - | 1,214,480 |
| CANSO | - | - | - | - | - | - | - | - | - | - | 100,000 |
| EASTERN BROWNS | - | 130 | - | 1,480 | 970 | 900 | 1,975 | - | - | - | 100,000 |
| EASTERN NOVA SCOTIA | - | 1,265 | - | 3,480 | 3,070 | 160 | 2,615 | - | - | - | 202,250 |
| SOUTHERN NOVA SCOTIA | - | 1,563 | - | 15,856 | 4,935 | 280 | 1,430 | - | - | - | 386,525 |
| WESTERN NOVA SCOTIA | - | 7,444 | - | 45,431 | 31,264 | 13,305 | 30,397 | - | - | - | 3,026,000 |
| NORTHERN BAY OF FUNDY | - | 250 | - | 675 | 117,355 | 53,244 | 16,656 | - | - | - | 16,920 |
| EASTERN MAINE | - | 24,159 | - | 231,001 | 117,355 | 53,244 | 16,656 | 65 | - | - | 2,481,126 |

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTES AT END OF TABLE.

LANDINGS AT MAINE PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1961 - Continued

| | FLOUNDERS - ROUND-CONTINUED | | GRAY-FISH, ROUND | HADDOCK, DRAWN | | HAKE, WHITE, DRESSED | | HALIBUT, DRAWN | HERRING, SEA | MACKEREL, ROUND | OCEAN PERCH, ROUND | |
|---|-----------------------------|--------------------|------------------|------------------|----------------------------|----------------------|-------------------|----------------|---------------|-----------------|-------------------------------|-----------|
| | BLACK-BACK | DAB | | LARGE | SCROD | LARGE | SMALL | | | | | POUNDS |
| | | | | | | | | | | | | |
| OTTER TRAWLS, MEDIUM - CONTINUED: | | | | | | | | | | | | |
| CENTRAL MAINE | 682 | 42,943 | - | 109,627 | 63,143 | 32,648 | 18,261 | - | - | - | 2,245,042 | |
| WESTERN MAINE | - | 22,980 | - | 51,091 | 64,292 | 210 | 42,366 | 30 | - | - | 2,767,751 | |
| EASTERN MASSACHUSETTS | 65 | 24,002 | - | 231,934 | 86,424 | 7,365 | 35,066 | - | - | - | 6,317,563 | |
| INNER GROUNDS | - | 75 | - | 1,220 | 1,245 | - | 300 | - | - | - | 18,960 | |
| WEST SIDE SOUTH CHANNEL | - | - | - | - | - | - | - | - | - | - | - | |
| TOTAL | 1,012 | 124,676 | - | 729,826 | 373,749 | 108,072 | 148,670 | 95 | - | - | 19,921,815 | |
| OTTER TRAWLS, SMALL: | | | | | | | | | | | | |
| WESTERN BROWN | - | 585 | - | 1,975 | 1,145 | 395 | 1,650 | - | - | - | 113,000 | |
| WESTERN SCOTIA | - | 1,190 | - | 4,735 | 7,015 | 15,785 | 5,010 | - | - | - | 215,000 | |
| EASTERN MAINE | - | 9,120 | - | 17,723 | 25,015 | 118,955 | 23,167 | - | - | - | 807,400 | |
| CENTRAL MAINE | 69,274 | 211,046 | - | 250,326 | 122,691 | 33,853 | 33,853 | 7,116 | - | - | 1,167,292 | |
| WESTERN MAINE | 93,905 | 306,319 | - | 368,474 | 103,177 | 52,160 | 5,062 | 40,250 | - | - | 6,122,217 | |
| INNER GROUNDS | - | 3,273 | - | 26,132 | 7,187 | 650 | 5,062 | - | - | - | 930,125 | |
| TOTAL | 157,179 | 531,443 | - | 668,692 | 244,760 | 187,905 | 68,742 | 7,646 | - | - | 3,859,334 | |
| SINK GILL NETS: | | | | | | | | | | | | |
| WESTERN MAINE | - | - | 938,206 | 131,690 | - | - | - | 1,891 | - | - | - | |
| TOTAL (LANDED WEIGHT, ALL SPECIES) | 158,191 | 688,459 | 965,996 | 1,825,629 | 753,228 | 1,527,531 | 510,137 | 60,131 | 40,250 | 463,773 | 77,350,099 | |
| TOTAL (ROUND WEIGHT, ALL SPECIES 2/1) | 159,191 | 688,459 | 965,996 | 2,081,217 | 858,678 | 2,046,916 | 683,584 | 69,151 | 40,250 | 463,773 | 77,350,099 | |
| MISCELLANEOUS GEARS: | | | | | | | | | | | | |
| UNCLASSIFIED WATERS OFF MAINE | - | - | - | - | - | - | - | - | - | 54,422,381 | - | |
| GRAND TOTAL (ROUND WEIGHT 2/1) | 159,191 | 688,459 | 965,996 | 2,081,217 | 858,678 | 2,046,916 | 683,584 | 69,151 | 54,422,381 | 152,317 | - | |
| GEAR AND SUBAREA | POLLOCK, DRAWN | THIN, BLUET, ROUND | WHITING, ROUND | MULE-FISH, DRAWN | UNCLASSIFIED FISH FOR FOOD | | SCALLOPS, (HEATS) | | SHRIMP, ROUND | LOBSTERS, ROUND | UNCLASSIFIED SHELL-FISH, ETC. | TOTAL |
| | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS |
| LONG LINES (TRAWL LINES): | | | | | | | | | | | | |
| CENTRAL MAINE | 17,375 | - | - | 3,675 | 464 | 50,200 | - | - | - | - | - | 1,603,093 |
| WESTERN MAINE | - | - | - | - | 514 | 50,200 | - | - | - | - | - | 446,239 |
| TOTAL | 23,020 | - | - | 3,675 | 514 | 50,200 | - | - | - | - | - | 2,049,332 |
| HAND LINES: | | | | | | | | | | | | |
| CENTRAL MAINE | 38,671 | 2,900 | - | - | 160 | - | - | - | - | - | - | 127,513 |
| WESTERN MAINE | 23,036 | 2,900 | - | - | 160 | - | - | - | - | - | - | 73,637 |
| TOTAL | 61,707 | 2,900 | - | - | 160 | - | - | - | - | - | - | 201,150 |
| HARPOONS: | | | | | | | | | | | | |
| SOUTHWEST GRAND BANK | - | 480 | - | - | 4,711 | - | - | - | - | - | - | 4,711 |
| CENTRAL MAINE | - | 101,763 | - | - | 1,900 | - | - | - | - | - | - | 1,900 |
| WESTERN MAINE | - | - | - | - | 1,700 | - | - | - | - | - | - | 103,463 |
| TOTAL | - | 102,243 | - | - | 7,321 | - | - | - | - | - | - | 109,564 |

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTES AT END OF TABLE.

NEW ENGLAND FISHERIES

LANDINGS AT MAINE PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1961 - Continued

| GEAR AND SUBAREA | POLLOCK, DRAWN | | TUNA, BLUEFIN, ROUND | | WHITING, ROUND | | WOLF-DRAWN | | UNCLASSIFIED FISH | | | LOBSTERS, ROUND | | UNCLASSIFIED SHELL-FISH, ETC. | | TOTAL | | |
|--|----------------|-----|----------------------|---|----------------|---|------------|--------|-------------------|---------------|----------------------------|-----------------|--------|-------------------------------|--------|-------|---------|-----|
| | POUNDS | | POUNDS | | POUNDS | | POUNDS | | POUNDS | | POUNDS | | POUNDS | | POUNDS | | POUNDS | |
| | | | | | | | | | FOR FOOD | FOR REDUCTION | SCALLOPS, SELECTED (WEATS) | SHRIMP, ROUND | | | | | | |
| OTTER TRAWLS, LARGE: | | | | | | | | | | | | | | | | | | |
| SOUTHEAST GRAND BANK | 1 | 900 | - | - | - | - | - | 290 | - | - | - | - | - | - | - | - | 19,925 | 159 |
| SOUTHWEST GRAND BANK | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 13,857 | 674 |
| SOUTHERN BAY OF FUNDY | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3,000 | 10 |
| EAST GULF OF ST. LAWRENCE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 16,447 | 16 |
| NORTH GULF OF ST. LAWRENCE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 304,564 | 664 |
| NORTHEAST CAPE BRETON | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 935,417 | 935 |
| MISMAINE BANK | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 245,944 | 245 |
| CANSO | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1,925 | 579 |
| MIDDLE GROUND | 1 | 965 | - | - | - | - | - | 200 | - | - | - | - | - | - | - | - | 1,154 | 209 |
| SOUTHEAST SABLE ISLAND BANK | 4 | 930 | - | - | - | - | - | 630 | - | - | - | - | - | - | - | - | 1,149 | 769 |
| HORSESHOE GROUND | 10 | 630 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1,356 | 221 |
| SOUTHWEST SABLE ISLAND BANK | 2 | 680 | - | - | - | - | - | 105 | - | - | - | - | - | - | - | - | 381 | 640 |
| SOUTHERN BAY OF FUNDY | 1 | 725 | - | - | - | - | - | 200 | - | 3,000 | - | - | - | - | - | - | 1,616 | 812 |
| EMERALD BANK | 14 | 360 | - | - | - | - | - | 1,760 | - | - | - | - | - | - | - | - | 1,415 | 964 |
| CENTRAL NOVA SCOTIA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 92 | 762 |
| NORTHEAST BROWNS AND LA HAVE | 16 | 000 | - | - | - | - | - | 140 | - | - | - | - | - | - | - | - | 2,650 | 900 |
| SOUTHERN NOVA SCOTIA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1,351 | 595 |
| WESTERN BROWNS | 16 | 529 | - | - | - | - | - | 65 | - | - | - | - | - | - | - | - | 2,677 | 500 |
| NORTHERN BAY OF FUNDY | 72 | 367 | - | - | - | - | - | 75 | 75 | - | - | - | - | - | - | 902 | 326 | |
| NORTHERN BAY OF FUNDY | 7 | 355 | - | - | - | - | - | 10 | - | - | - | - | - | - | - | - | 31 | 420 |
| CENTRAL MAINE | 32 | 183 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 96 | 283 |
| WESTERN MAINE | 125 | 443 | - | - | - | - | - | 340 | - | - | - | - | - | - | - | - | 3,332 | 165 |
| INNER GROUNDS | 3 | 210 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 111 | 735 |
| WEST SIDE SOUTH CHANNEL | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 312 | 497 | - | - | - | - | - | 7,555 | 75 | 3,000 | - | - | - | - | - | - | 54,496 | 307 |
| OTTER TRAWLS, MEDIUM: | | | | | | | | | | | | | | | | | | |
| EAST GULF OF ST. LAWRENCE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2,760 | 902 |
| SOUTHWEST GRAND BANK | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 902 | 145 |
| SOUTHERN BAY OF FUNDY | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1,214 | 480 |
| MISMAINE BANK | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 100,000 | 100 |
| CANSO | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 107,850 | 107 |
| MIDDLE GROUND | 3 | 510 | - | - | - | - | - | 40 | - | - | - | - | - | - | - | - | 426 | 955 |
| EASTERN NOVA SCOTIA | 50 | 110 | - | - | - | - | - | 100 | - | - | - | - | - | - | - | - | 1,000 | 000 |
| SOUTHERN NOVA SCOTIA | 1 | 110 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 107,850 | 107 |
| WESTERN NOVA SCOTIA | 57 | 454 | - | - | - | - | - | 750 | - | - | - | - | - | - | - | - | 3,271 | 915 |
| NORTHERN BAY OF FUNDY | 1 | 390 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 21 | 620 |
| EASTERN MAINE | 106 | 967 | - | - | - | - | - | 3,065 | - | - | - | - | - | - | - | - | 3,263 | 130 |
| CENTRAL MAINE | 347 | 002 | - | - | - | - | - | 3,434 | 400 | - | - | - | - | - | - | - | 3,057 | 072 |
| WESTERN MAINE | 532 | 202 | - | - | - | - | - | 2,047 | 12,420 | - | - | - | - | - | - | 3,953 | 624 | |
| INNER GROUNDS | 231 | 769 | - | - | - | - | - | 25 | - | - | - | - | - | - | - | - | 7,106 | 551 |
| WEST SIDE SOUTH CHANNEL | 4 | 600 | - | - | - | - | - | 2,756 | - | - | - | - | - | - | - | - | 7,281 | 940 |
| TOTAL | 1,348 | 983 | - | - | - | - | - | 12,220 | - | 12,820 | - | - | - | - | - | - | 23,850 | 626 |

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

NEW ENGLAND FISHERIES

LANDINGS AT MAINE PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1961 - Continued

| GEAR AND SUBAREA | POLLOCK, DRAWN | | TUNA, BLUEFIN, ROUND | | WHITING, ROUND | | WOLF-FISH, DRAWN | | UNCLASSIFIED FISH FOR FOOD | | UNCLASSIFIED FISH FOR REDUCTION | | SCALLOPS, SEA (MEATS) | | SHRIMP, ROUND | | LOBSTERS, ROUND | | UNCLASSIFIED SHELL-FISH, ETC. | | TOTAL | |
|---|----------------|---------|----------------------|--------|----------------|-----------|------------------|--------|----------------------------|-----------|---------------------------------|-----------|-----------------------|--------|---------------|------------|-----------------|--------|-------------------------------|--------|--------|-------------|
| | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS |
| OTTER TRAWLS, SMALL: | | | | | | | | | | | | | | | | | | | | | | |
| WESTERN BROWNS | 1,150 | - | - | - | - | - | 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 121,685 |
| WESTERN NOVA SCOTIA | 3,205 | - | - | - | - | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 257,855 |
| EASTERN MAINE | 2,795 | - | - | - | - | - | 530 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 882,185 |
| CENTRAL MAINE | 67,083 | - | - | - | 446,345 | - | 11,573 | - | 1,607 | 158,575 | - | - | - | 8,544 | - | 6,791 | - | - | - | - | - | 2,962,816 |
| WESTERN MAINE | 224,656 | - | - | - | 13,476,433 | - | 5,220 | - | 615 | 1,084,908 | - | - | - | 56,680 | - | 993 | - | - | - | - | - | 17,012,990 |
| INNER GROUNDS | 35,990 | - | - | - | - | - | 360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1,031,667 |
| TOTAL | 334,859 | - | - | - | 13,922,778 | - | 17,708 | - | 2,222 | 1,243,463 | - | - | - | 67,224 | - | 7,784 | - | - | - | - | - | 22,269,196 |
| SINK GILL NETS, WESTERN MAINE | 756,236 | - | - | - | - | - | - | - | 18,271 | 18,890 | - | - | - | - | - | - | - | - | - | - | - | 2,772,992 |
| SCALLOP DREDGES: | | | | | | | | | | | | | | | | | | | | | | |
| EASTERN MAINE | - | - | - | - | - | - | - | - | - | - | - | - | 3,996 | - | - | - | - | - | - | - | - | 3,996 |
| CENTRAL MAINE | - | - | - | - | - | - | - | - | - | - | - | 1,875 | - | - | - | - | - | - | - | - | - | 1,875 |
| NORTHERN MAINE AND NORTHEAST PEAK | - | - | - | - | - | - | - | - | - | - | - | 2,349,227 | - | - | - | - | - | - | - | - | - | 2,349,227 |
| CENTRAL AND SOUTHEAST GEORGES | - | - | - | - | - | - | - | - | - | - | - | 249,863 | - | - | - | - | - | - | - | - | - | 249,863 |
| TOTAL | - | - | - | - | - | - | - | - | - | - | - | 2,740,101 | - | - | - | - | - | - | - | - | - | 2,740,101 |
| TOTAL (LANDED WEIGHT, ALL SPECIES) | 2,837,262 | 105,143 | 14,146,778 | 41,158 | 28,563 | 1,328,393 | 2,740,101 | 67,224 | 7,784 | - | 108,491,352 | - | - | - | - | - | - | - | - | - | - | 108,491,352 |
| TOTAL (ROUND WEIGHT, ALL SPECIES 2/). | 3,206,128 | 105,143 | 14,146,778 | 49,390 | 32,637 | 1,328,393 | 2,740,101 | 67,224 | 7,784 | - | 110,366,527 | - | - | - | - | - | - | - | - | - | - | 110,366,527 |
| MISCELLANEOUS GEAR, UNCLASSIFIED WATERS OFF MAINE | - | - | - | - | - | - | - | - | 1,779,622 | 133,070 | - | - | - | - | - | 20,910,136 | - | - | - | - | - | 67,601,005 |
| GRAND TOTAL (ROUND WEIGHT 2/). | 3,206,128 | 105,143 | 14,146,778 | 49,390 | 32,637 | 1,328,393 | 2,740,101 | 67,224 | 7,784 | - | 108,491,352 | - | - | - | 20,910,136 | - | - | - | - | - | - | 197,969,532 |

1/ EXCLUSIVE OF DUPLICATION. 2/ ALL SPECIES ARE LISTED AS ROUND WEIGHT EXCEPT UNIVALVE AND BIVALVE MOLLUSKS WHICH ARE REPORTED AS POUNDS OF MEATS. SEA SCALLOPS ARE LISTED AS WEIGHT OF EDIBLE MEAT. LANDED WEIGHT OF FINFISH WAS CONVERTED TO ROUND WEIGHT BY MULTIPLYING BY THE FOLLOWING FACTORS: COD, DRAWN FISH; SKA, DRAWN FISH; HADDOCK, DRAWN FISH; WHITE HAKE, DRAWN FISH; POLLOCK, DRAWN FISH; TUNA, DRESSED 1.15; SALMON, DRESSED 1.25; SCALLOP, DRESSED 1.66; ANCHOVY FISH; DRUM, DRAWN FISH; 150 GROSS TONS, FARGES FISH. DRESSING FACTORS ARE THE NEAREST TENTH OF A UNIT. "HEAD IN" IS GROSS TONS TO FISHING TRIP. WHEN A CRAFT OPERATES IN TWO OR MORE SUBAREAS DURING A VOYAGE A FRACTIONAL PART (IN TENTHS) OF THE TRIP IS ALLOTTED TO THE SUBAREA ON THE BASIS OF THE CATCH IN EACH SUBAREA. DAYS FISHED IS THE TIME ACTUAL FISHING OPERATIONS WERE CARRIED ON, EXPRESSED TO THE NEAREST TENTH OF A DAY. TO OBTAIN FISHING TIME IN HOURS, MULTIPLY THE NUMBER OF DAYS FISHED BY 24.

NEW ENGLAND FISHERIES

LANDINGS AT MASSACHUSETTS PORTS

Detailed statistics are collected and published monthly and annually on landings at Boston, Gloucester, New Bedford, and other Massachusetts ports. Additional detailed tabulations are prepared for the use of Bureau and State scientists and the International Commission for the Northwest Atlantic Fisheries. The data usually represent about 98 percent of the total Massachusetts catch.

A summary of 1961 data on Massachusetts landings by ports and by gear and area of capture is contained in the following tables. Since the quantities shown represent the actual weights of the landings, they are not directly comparable with the catch figures which appear in other tables in this Digest. The Statistical Digests published prior to 1959 contained information on monthly landings by species at individual ports.

Landings by fishing craft of all sizes at Boston, Gloucester, New Bedford, and certain other Massachusetts ports in 1961 amounted to nearly 432 million pounds valued at \$33 million. Compared with 1960 (444 million pounds valued at \$32 million), landings declined 3 percent in volume but increased 3 percent in value. During 1961, receipts at Gloucester accounted for 38 percent of the total production but only 18 percent of the total value. Boston was second both in quantity (27 percent) and value (29 percent). New Bedford ranked third in volume (23 percent) but led in value with 45 percent of the landings. Production at other Massachusetts ports made up the remaining 12 percent in quantity and 8 percent in value.

At Boston, landings of 117 million pounds reflected a 7-million-pound increase over 1960, although the value declined slightly. The gain in volume was due principally to increased receipts of haddock, which comprised 72 percent of the total. Landings of scrod haddock were the heaviest in 5 years. Other species taken in considerable quantity were cod (16 percent) and pollock (7 percent).

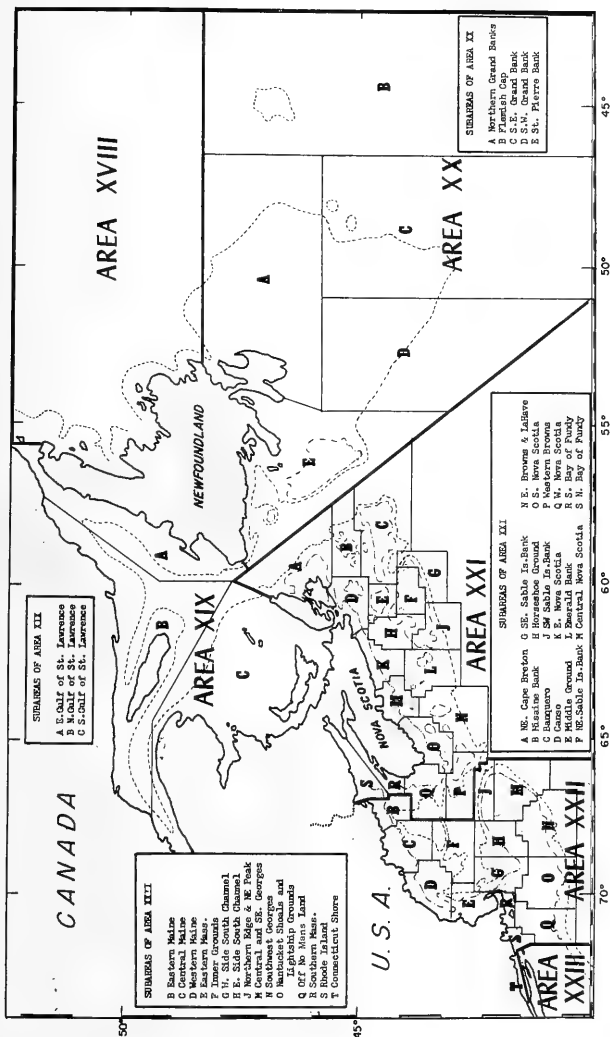
Gloucester landings were larger than those at any other Massachusetts ports but were the lowest since 1947. Ocean perch was the leading species in both volume and value, although landings of these fish (54 million pounds) were the smallest at this port since 1939. However, ocean perch continued to provide more employment and yielded fishermen a greater return than any other species in the Gloucester fishery. Receipts of whiting (51.6 million pounds) were nearly 12 million pounds below the 1960 production. Whiting landings dropped below those of ocean perch for the first time in 2 years and were the lowest since 1958.

Landings at New Bedford (100.5 million pounds) were 8 percent above those of 1960. The increased volume resulted from gains in landings of yellowtail flounders, haddock, cod, and scallops, and resumption of menhaden landings. Although landings of yellowtail flounders (30.2 million pounds) were 28 percent more than in 1960, they were still considerably below the record 36.7 million pounds landed in 1942. The predominance, of high-priced species, such as flounders and scallops, enabled New Bedford to retain the position of second ranking port in the nation in ex-vessel value of fishery products.

A total of 712 fishing craft was required to capture the 432 million pounds of fish and shellfish landed at Massachusetts ports in 1961. Of this number, 414 craft operating otter trawls caught 86 percent of the total landings. Purse seines accounted for 6 percent; scallop dredges, 5 percent; and the remainder was taken on lines, in pound and trap nets, by harpoons, or with gill nets. Fishing grounds off New England yielded 359 million pounds or 83 percent of the entire landings. About 16 percent was taken on grounds off Nova Scotia, while the remaining 1 percent came from the Gulf of St. Lawrence, the Grand Bank, and from areas off the Middle Atlantic States.

STATISTICAL AREAS AND SUBAREAS USED IN REPORTING THE CATCH

LANDED AT CERTAIN MASSACHUSETTS PORTS DURING 1961



NEW ENGLAND FISHERIES

LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF LANDINGS, 1961

| SPECIES | BOSTON | | | GLOUCESTER | | | NEW BEDFORD | | |
|-----------------------|-------------|-----------|---------------------|-------------|-----------|---------------------|-------------|------------|---------------------|
| | POUNDS | VALUE | AV. PRICE PER POUND | POUNDS | VALUE | AV. PRICE PER POUND | POUNDS | VALUE | AV. PRICE PER POUND |
| COO, DRAWN: | | | | | | | | | |
| LARGE | 5,536,220 | \$392,459 | 7.09¢ | 1,415,660 | \$103,421 | 7.30¢ | 1,409,595 | \$96,741 | 6.86¢ |
| MARKET | 9,002,665 | 664,518 | 7.36 | 1,659,267 | 113,865 | 6.86 | 4,655,060 | 354,626 | 7.62 |
| SCROD | 4,296,100 | 301,791 | 7.02 | 282,512 | 14,894 | 5.27 | 223,120 | 14,026 | 6.29 |
| CUSK, DRAWN: | 4,710,540 | 46,064 | 6.76 | 413,066 | 21,060 | 5.10 | 190 | 3 | 1.58 |
| FISHES, ROUND: | | | | | | | | | |
| BLACKBACK | 920,359 | 120,298 | 13.07 | 1,011,678 | 6,906 | 6.78 | 8,082,668 | 920,844 | 11.39 |
| DAB | 596,465 | 51,540 | 8.61 | 1,105,947 | 60,265 | 5.45 | 8,674,920 | 91,457 | 10.45 |
| FLUKE | 1,915 | 282 | 14.72 | 365 | 18 | 4.93 | 4,422,109 | 814,327 | 18.41 |
| GRAY SOLE | 306,486 | 53,964 | 17.49 | 836,276 | 100,598 | 12.03 | 626,720 | 76,611 | 12.33 |
| LEMON SOLE | 483,157 | 75,612 | 15.65 | 2,277 | 174,117 | 13.90 | 1,869,795 | 446,170 | 23.86 |
| SMITHY | 891,590 | 63,973 | 7.16 | 276,500 | 15,370 | 5.52 | 30,236,443 | 2,576,625 | 6.52 |
| HADDOCK, DRAWN: | | | | | | | | | |
| LARGE | 33,913,568 | 3,375,298 | 9.95 | 7,186,212 | 669,716 | 9.60 | 5,995,110 | 548,745 | 9.15 |
| SCROD | 50,179,061 | 3,802,325 | 7.58 | 7,837,176 | 533,267 | 6.80 | 5,990,070 | 447,577 | 7.47 |
| HAKE: | | | | | | | | | |
| RED, ROUND | 55,660 | 2,474 | 4.43 | 130,625 | 3,216 | 2.46 | 250 | 5 | 2.00 |
| WHILE, DRESSED: | | | | | | | | | |
| LARGE | 652,480 | 57,478 | 8.81 | 463,498 | 34,640 | 7.16 | 2,115 | 71 | 3.36 |
| SMALL | 2,610 | 145 | 5.56 | 311,630 | 14,325 | 4.60 | 4,595 | 284 | 6.19 |
| HALLIBUT, DRAWN | 71,706 | 19,572 | 27.29 | 74,752 | 21,262 | 28.44 | 7,092 | 1,731 | 24.41 |
| MACKEREL, ROUND | 1,980 | 164 | 8.28 | 166,736 | 27,467 | 14.71 | 525 | 105 | 20.00 |
| MENHADEN, ROUND | 700,565 | 36,920 | 5.20 | 91,710 | 4,917 | 5.36 | 2,697,000 | 24,379 | 2.67 |
| POLLOCK, DRAWN | 8,094,210 | 417,206 | 5.16 | 53,991,707 | 2,131,891 | 3.90 | 32,000 | 3,165 | 2.85 |
| SCUP OR PORGY, ROUND | | | | | | | | | |
| SMORFISH, DRESSED | | | | | | | | | |
| TILEFISH, DRAWN: | | | | | | | | | |
| WHITINGS: | | | | | | | | | |
| ROUND: | 140,736 | 5,324 | 3.76 | 56,515 | 2,460 | 4.35 | | | |
| SCROD | 3,075 | 51 | 1.66 | 51,541,149 | 1,151,939 | 2.23 | | | |
| WOLFFISH, DRAWN | 362,323 | 26,127 | 7.21 | 83,295 | 4,768 | 5.75 | 16,505 | 1,031 | 5.57 |
| SCALLOPS, SEA (MEATS) | 84,323 | 32,200 | 36.19 | 190,751 | 60,178 | 42.03 | 20,648,265 | 7,853,118 | 38.03 |
| UNCLASSIFIED: | | | | | | | | | |
| FOR FOOD | | | | | | | | | |
| BY PRODUCT ON, AND | | | | | | | | | |
| ANIMAL FOOD | 35,930 | 2,293 | 6.36 | 5,947,546 | 366,677 | 6.20 | 546,673 | 194,674 | 35.52 |
| TOTAL, AS LANDED | 117,026,913 | 9,585,037 | 8.16 | 163,056,745 | 5,955,620 | 6.91 | 10,908,600 | 69,784 | 0.64 |
| TOTAL 1960, AS LANDED | 110,364,347 | 9,627,143 | 8.72 | 192,406,289 | 6,329,994 | 3.29 | 85,116,650 | 13,164,150 | 15.46 |

(CONTINUED ON NEXT PAGE)

SEE NOTE AT END OF TABLE.

NEW ENGLAND FISHERIES

LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF LANDINGS, 1961 - Continued

| SPECIES | OTHER MASSACHUSETTS PORTS | | | | | | TOTAL | | | | | |
|--|---------------------------|-----------|---------------------|-------------|------------|---------------------|-------------|------------|---------------------|--------|-------|---------------------|
| | 1961 | | | 1960 | | | 1961 | | | 1960 | | |
| | POUNDS | VALUE | AV. PRICE PER POUND | POUNDS | VALUE | AV. PRICE PER POUND | POUNDS | VALUE | AV. PRICE PER POUND | POUNDS | VALUE | AV. PRICE PER POUND |
| COD, DRAWN: | | | | | | | | | | | | |
| LARGE | 1,532,103 | \$116,467 | 7.73 | 9,093,708 | \$711,087 | 7.19 | 8,664,088 | \$654,976 | 7.56 | | | |
| MARKET | 1,686,624 | 116,624 | 5.30 | 6,975,225 | 1,263,365 | 7.37 | 14,821,592 | 1,112,394 | 7.66 | | | |
| SMALL | 113,931 | 10,446 | 3.20 | 4,874,952 | 1,340,794 | 6.85 | 3,044,869 | 213,667 | 7.02 | | | |
| CUSCOUMB, DRAWN | 13,931 | | | 1,137,747 | 69,613 | 6.11 | 1,190,297 | 70,985 | 5.96 | | | |
| FLOUNDERS, ROUND: | | | | | | | | | | | | |
| BLACKBACK | 2,618,265 | 305,704 | 10.85 | 11,923,370 | 1,953,752 | 11.35 | 11,666,856 | 1,489,286 | 12.76 | | | |
| DAB | 14,303 | 673 | 47.00 | 2,211,948 | 97,394 | 17.60 | 5,592,579 | 215,995 | 6.32 | | | |
| FLUKE | 212,576 | 12,931 | 12.60 | 1,697,416 | 270,310 | 13.60 | 2,267,175 | 305,785 | 13.49 | | | |
| GRAY SOLE | 219,531 | 39,720 | 25.71 | 2,407,670 | 353,779 | 22.60 | 2,672,737 | 544,147 | 20.37 | | | |
| SOLE | 37,801 | 9,720 | 25.71 | 34,666,932 | 2,965,481 | 8.52 | 2,731,936 | 9.87 | | | | |
| YELLOWTAIL | 3,283,599 | 298,113 | 9.15 | | | | | | | | | |
| Haddock, DRAWN: | | | | | | | | | | | | |
| LARGE | 2,129,331 | 189,086 | 8.68 | 49,227,221 | 4,802,845 | 9.76 | 47,794,845 | 4,877,053 | 10.20 | | | |
| SMALL | 1,176,999 | 75,227 | 6.46 | 65,163,355 | 4,859,395 | 7.45 | 52,761,789 | 4,212,686 | 7.98 | | | |
| HAKE: | | | | | | | | | | | | |
| ROUND | 6,959,150 | 80,190 | 1.15 | 7,146,075 | 85,885 | 1.20 | 7,476,825 | 79,280 | 1.06 | | | |
| WHITE, DRESSED: | | | | | | | | | | | | |
| LARGE | 191,011 | 2,749 | 1.44 | 1,329,104 | 94,938 | 7.14 | 1,896,757 | 130,998 | 8.20 | | | |
| SMALL | 112,662 | 6,374 | 5.66 | 181,087 | 5,051 | 4.90 | 390,383 | 18,559 | 4.76 | | | |
| HALIBUT, DRAWN | 1,437,684 | 15,380 | 10.70 | 1,609,941 | 245,145 | 31.20 | 1,559,493 | 46,412 | 29.66 | | | |
| MENHADEN, ROUND | 33,429 | 3,345 | 15.29 | 3,362,639 | 29,858 | 0.89 | 1,837,516 | 223,113 | 14.51 | | | |
| OCEAN PERCH, ROUND | 9,205 | 396 | 5.74 | 56,712,622 | 2,172,242 | 3.97 | 18,031,004 | 173,684 | 0.96 | | | |
| POLLOCK, DRAWN | 271,393 | 11,622 | 4.28 | 16,036,809 | 699,877 | 4.10 | 16,174,678 | 2,409,579 | 3.94 | | | |
| SCUP OR PORGY, ROUND | 749,512 | 25,696 | 34.13 | 1,466,455 | 230,640 | 49.23 | 1,479,321 | 271,780 | 2.37 | | | |
| SNORFISH, DRESSED | 12,965 | 1,366 | 10.56 | 327,880 | 36,731 | 11.20 | 1,094,810 | 254,766 | 48.98 | | | |
| MUTTINS: | | | | | | | | | | | | |
| DRESSED | 3,469,467 | 160,853 | 4.64 | 3,666,717 | 168,637 | 4.60 | 3,882,670 | 169,813 | 4.36 | | | |
| ROUND | 16,365,034 | 295,008 | 1.80 | 67,909,258 | 1,446,698 | 7.43 | 86,611,724 | 1,796,339 | 2.20 | | | |
| WOLFFISH, DRAWN | 2,713 | 44 | 6.04 | 21,039,227 | 8,009,852 | 38.08 | 20,572,193 | 7,159,598 | 34.80 | | | |
| SCALLOPS, SEA (MEATS): | | | | | | | | | | | | |
| LARGE | 110,866 | 44,550 | 40.01 | | | | | | | | | |
| SMALL | | | | | | | | | | | | |
| FOR FOOD | 4,572,518 | 367,253 | 8.03 | 11,104,669 | 933,097 | 8.40 | 11,946,117 | 807,835 | 6.76 | | | |
| BAIT, REDUCTION, AND ANIMAL FOOD | 2,715,763 | 44,951 | 1.66 | 34,405,763 | 303,939 | 0.88 | 34,603,132 | 319,645 | 0.92 | | | |
| TOTAL, AS LANDED | 51,090,910 | 2,576,281 | 5.04 | 431,643,662 | 32,900,189 | 7.62 | - | - | - | | | |
| TOTAL 1960, AS LANDED | 56,034,547 | 2,715,474 | 4.85 | - | - | - | 443,943,833 | 31,836,761 | 7.17 | | | |

NOTE:--DATA CONTAINED IN THIS REPORT ARE A SUMMARY OF LANDINGS REPORTED MONTHLY DURING THE YEAR, WHICH ACCOUNTED FOR 97.4 PERCENT OF THE 1961 MASSACHUSETTS CATCH. ADDITIONAL LANDINGS TOTALING APPROXIMATELY 2.6 PERCENT OF THE TOTAL CATCH WERE REPORTED BY OTHER STATES, CANADA, AND IRLISH WASS. THE GRADES AND SIZES GIVEN ARE THOSE REPORTED BY THE FISHERMEN. "LARGE" COD ARE CLASSIFIED AS THOSE WEIGHING OVER 10 POUNDS; "MARKET" COD, 2-1/2 TO 10 POUNDS; "LARGE" HAKE ARE THOSE WEIGHING OVER 6 POUNDS AND "SMALL" HAKE, UNDER 6 POUNDS. THE FOLLOWING TERMS INDICATE THE CONDITION IN WHICH LANDED: "DRAWN," AS CAUGHT; AND "DRESSED," Eviscerated and headed. THE CATEGORY "OTHER MASSACHUSETTS PORTS" INCLUDES PLYMOUTH, PROVINCETOWN, AND OTHER CAPE COD PORTS.

LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1961

| GEAR AND SUBAREA | CRAFT FISHING | | TRIPS | | DAYS ABSENT | | DAYS FISHED | | COO, DRAWN | | | FLOUNDER, ROUND | | |
|--|---------------|---------|--------|--------|-------------|---------|-------------|-----------|------------|-------------|-----------|-----------------|-------------|--|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | POUNDS | MARKET | SCROD | CUSK, DRAWN | GRAY SOLE | LEMON SOLE | YELLOW-TAIL | |
| LONG LINES (TRAWL LINES): | | | | | | | | | | | | | | |
| WESTERN MAINE | 2 | 2.0 | | 5 | | 3.5 | 4,040 | 3,650 | 925 | 2,275 | - | - | - | |
| EASTERN MASSACHUSETTS | 60 | 1,051.0 | | 1,079 | | 472.5 | 230,169 | 224,922 | 27,665 | 126,203 | - | - | 1,990 | |
| INNER GROUNDS | 6 | 94.0 | | 169 | | 141.1 | 481,520 | 53,735 | 10,425 | 134,105 | 237 | - | 103 | |
| WEST SIDE SOUTH CHANNEL | 27 | 1,260.0 | | 1,314 | | 674.5 | 616,162 | 373,638 | 17,110 | 136,614 | 607 | 1,909 | 103 | |
| TOTAL | 1/ 81 | 2,417.0 | | 2,567 | | 1,294.5 | 1,096,910 | 556,345 | 56,145 | 278,917 | 644 | 1,909 | 2,133 | |
| HAND LINES: | | | | | | | | | | | | | | |
| EASTERN MASSACHUSETTS | 103 | 1,007.0 | | 1,007 | | 324.4 | 216,395 | 62,633 | 40 | 500 | - | 276 | 9 | |
| WEST SIDE SOUTH CHANNEL | 24 | 972.0 | | 972 | | 485.0 | 179,069 | 124,200 | - | 42 | - | - | - | |
| TOTAL | 127 | 1,979.0 | | 1,979 | | 809.4 | 394,464 | 166,833 | 40 | 542 | - | 276 | 9 | |
| HARPOONS: | | | | | | | | | | | | | | |
| EASTERN MASSACHUSETTS | 14 | 79.0 | | 79 | | 15.5 | - | - | - | - | - | - | - | |
| WESTERN MAINE | 7 | 3.0 | | 43 | | 21.0 | - | - | - | - | - | - | - | |
| CENTRAL AND SOUTH GEORGES | 2 | 1.0 | | 1 | | 0.5 | - | - | - | - | - | - | - | |
| NANTUCKET SHOALS AND LIGHTSHIP | 14 | 50.0 | | 375 | | 212.0 | - | - | - | - | - | - | - | |
| OFF NO MANS LAND | 20 | 47.0 | | 248 | | 136.2 | - | - | - | - | - | - | - | |
| TOTAL | 1/ 34 | 160.0 | | 752 | | 389.6 | - | - | - | - | - | - | - | |
| OTTER TRAWLS, LARGE: | | | | | | | | | | | | | | |
| SOUTHEAST GRAND BANK | 1 | 0.5 | | 6 | | 1.5 | - | 473 | - | - | - | - | - | |
| SOUTHWEST GRAND BANK | 5 | 17.6 | | 26.4 | | 481.2 | - | - | - | 330 | - | - | - | |
| NANTUCKET SHOALS AND LIGHTSHIP | 2 | 1.0 | | 16 | | 2.5 | - | - | - | - | - | - | - | |
| EAST GULF ST. LAWRENCE | 1 | 0.7 | | 1 | | 0.5 | - | - | - | - | - | - | - | |
| NORTHEAST GULF BRETON | 12 | 28.3 | | 375 | | 105.5 | 924 | 4,542 | - | 100 | 2,721 | - | - | |
| MISAINE BANK | 4 | 6.2 | | 68 | | 18.2 | 1,050 | 1,400 | - | 140 | 91 | - | - | |
| ANGLICUREAU | 19 | 142 | | 1,422 | | 427.6 | 822 | 1,090 | - | 100 | 2,340 | - | - | |
| MIDDLE GROUND | 3 | 11.2 | | 15 | | 4.0 | 85 | 4,172 | - | 349 | 26,032 | - | - | |
| HORSESHOE GROUND | 12 | 15.8 | | 201 | | 50.5 | 1,031 | 1,936 | - | 385 | 6,511 | - | - | |
| EASTERN NOVA SCOTIA | 9 | 14.5 | | 193 | | 52.7 | 1,081 | 2,753 | - | 1,087 | 2,695 | - | - | |
| CENTRAL NOVA SCOTIA | 13 | 34.3 | | 470 | | 114.2 | 4,128 | 10,365 | 70 | 4,762 | 6,137 | - | - | |
| EAST BROWNS AND LA HAVE | 32 | 46.9 | | 434 | | 272.3 | 130,553 | 308,665 | 67,635 | 41,370 | 1,912 | 730 | 2,000 | |
| SOUTHERN NOVA SCOTIA | 24 | 27.6 | | 259 | | 129.4 | 355,655 | 106,548 | 19,960 | 9,090 | 1,152 | 250 | 1,600 | |
| WESTERN NOVA SCOTIA | 29 | 54.9 | | 520 | | 367.1 | 223,431 | 338,922 | 81,275 | 45,105 | 550 | 5,900 | 5,900 | |
| SOUTHERN BAY OF FUNDY | 3 | 1.9 | | 16 | | 9.2 | 10,200 | 10,500 | 7,900 | - | 700 | - | - | |
| EASTERN MAINE | 4 | 3.7 | | 33 | | 21.6 | 7,100 | 10,500 | 3,775 | 1,150 | 100 | - | - | |
| EASTERN MASSACHUSETTS | 2 | 1.3 | | 9 | | 5.3 | 3,900 | 6,410 | 3,625 | 100 | - | - | - | |
| INNER GROUNDS | 3 | 4.5 | | 11 | | 6.7 | 1,476 | 1,790 | 765 | - | - | - | 125 | |
| WEST SIDE SOUTH CHANNEL | 8 | 4.1 | | 40 | | 16.1 | 1,016 | 1,076 | 1,007 | - | - | - | - | |
| NANTUCKET SHOALS AND LIGHTSHIP | 28 | 82.5 | | 575 | | 409.8 | 142,976 | 197,349 | 162,589 | 16,348 | 5,433 | 13,675 | 60,865 | |
| NORTHERN EDGE OF GEORGES | 25 | 30.7 | | 307 | | 150.5 | 3,609,435 | 3,609,435 | 20,460 | 16,322 | 79,975 | 40,885 | 70,885 | |
| CENTRAL AND SOUTHEAST GEORGES | 27 | 134.9 | | 1,196 | | 639.4 | 2,789,625 | 1,026,540 | 2,316,610 | 4,450 | 134,413 | 163,500 | 163,500 | |
| SOUTHWEST GEORGES | 19 | 12.9 | | 112 | | 66.6 | 24,620 | 45,650 | 26,610 | 3,500 | 4,535 | 4,750 | 12,200 | |
| NANTUCKET SHOALS AND LIGHTSHIP | 3 | 3.4 | | 18 | | 11.9 | 600 | 600 | 900 | - | - | - | - | |
| TOTAL | 1/ 41 | 937.0 | | 6,721 | | 5,006.4 | 3,809,865 | 6,269,397 | 3,275,515 | 272,850 | 120,260 | 275,963 | 36,460 | |

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTES AT END OF TABLE.

NEW ENGLAND FISHERIES

LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1961 - Continued

| GEAR AND SUBAREA | CRAFT FISHING | | TRIPS | | DAYS ABSENT | | DAYS FISHED | | COD, DRAB | | | FLOUNDERS, ROUND | | | |
|--------------------------------|---------------|----------|--------|----------|-------------|-----------|-------------|---------|--------------|---------------|--------------|--------------------|------------------|-------------------|--------------------|
| | NUMBER | TONS | NUMBER | TONS | NUMBER | TONS | NUMBER | TONS | LARGE POUNDS | MARKET POUNDS | SCROD POUNDS | CLISK DRAWN POUNDS | GRAY SOLE POUNDS | LEMON SOLE POUNDS | YELLOW-TAIL POUNDS |
| | | | | | | | | | | | | | | | |
| OTTER TRAWLS, MEDIUM | | | | | | | | | | | | | | | |
| SOUTHWEST GRAND BANK | 1 | 0.2 | | | 2 | 0.5 | | | | | | | | | |
| SOUTH EAST GRAND BANK | 2 | 3.1 | | | 40 | 10.4 | | | | | | | | | |
| NORtheast CAPE BRETON | 1 | 0.1 | | | 1 | 0.5 | | | | | | | | | |
| MISAI NE BANK 2/ | 6 | 14.1 | | | 155 | 46.1 | | | 30 | 1,710 | | | | | |
| BANKUEREAD | 3 | 2.5 | | | 78 | 22.7 | | | 945 | 13,612 | | | | | |
| MIDDLE GROUND | 3 | 5.5 | | | 61 | 17.8 | | | 4 | 516 | | | | | |
| HORSESHOE GROUND | 8 | 7.7 | | | 81 | 21.8 | | | 805 | 11,146 | | | | | |
| NORTHERN NOVA SCOTIA | 31 | 6.3 | | | 68 | 16.1 | | | 31 | 12 | | | | | |
| HERALD BANK | 10 | 2.5 | | | 23 | 6.1 | | | 1 | 297 | | | | | |
| WEST BARK | 4 | 3.0 | | | 11 | 3.0 | | | 1,158 | 16,070 | | | | | |
| EAST BARKS ANGLA HAVE | 33 | 65.9 | | | 572 | 272.0 | | | 1,158 | 23,693 | | | | | |
| SOUTHERN NOVA SCOTIA | 33 | 57.5 | | | 379 | 91.7 | | | 34,866 | 91,073 | | | | | |
| WESTERN BROADS | 26 | 47.6 | | | 382 | 219.5 | | | 105,437 | 185,359 | | | | | |
| WESTERN NOVA SCOTIA | 7 | 6.4 | | | 44 | 16.0 | | | 597 | 1,596 | | | | | |
| WESTERN BARK | 7 | 16.3 | | | 44 | 16.0 | | | 1,596 | 4,164 | | | | | |
| NORTHERN BAY OF FUNDY | 10 | 5.2 | | | 128 | 70.8 | | | 38,615 | 56,530 | | | | | |
| EASTERN MAINE | 7 | 5.2 | | | 48 | 18.6 | | | 5,950 | 10,660 | | | | | |
| WESTERN MAINE | 33 | 312.7 | | | 501 | 310.3 | | | 105,445 | 195,290 | | | | | |
| EASTERN MASSACHUSETTS | 56 | 1,185.9 | | | 1,392 | 686.6 | | | 146,703 | 212,763 | | | | | |
| WESTERN MASSACHUSETTS | 120 | 1,036.1 | | | 4,117 | 2,603.2 | | | 826,013 | 1,269,142 | | | | | |
| EAST SIDE SOUTH CHANNEL | 125 | 705.1 | | | 3,777 | 2,393.7 | | | 659,219 | 921,123 | | | | | |
| WEST SIDE SOUTH CHANNEL | 59 | 87.1 | | | 657 | 433.7 | | | 435,900 | 455,043 | | | | | |
| NORTHERN EDGE OF GEORGES | 78 | 105.7 | | | 1,094.3 | 699.469 | | | 699,469 | 2,394,300 | | | | | |
| SOUTHWEST GEORGES | 78 | 105.7 | | | 2,682 | 1,694.3 | | | 1,694,300 | 5,795,000 | | | | | |
| SOUTHEAST GEORGES | 93 | 636.9 | | | 3,469 | 2,230.1 | | | 213,425 | 1,377,929 | | | | | |
| NAUTUCKET SHOALS AND LIGHTSHIP | 52 | 262.2 | | | 960 | 574.0 | | | 6,608 | 14,210 | | | | | |
| OFF NO MAN'S LAND | 4 | 9.0 | | | 17 | 12.5 | | | 375 | 290 | | | | | |
| OFF NO MAN'S SHORE | 40 | 97.6 | | | 639 | 412.9 | | | 1,495 | 2,265 | | | | | |
| OFF LONG ISLAND | | | | | | | | | | | | | | | |
| TOTAL | 1/163 | 5,160.0 | 21,926 | 13,043.1 | 3,432,640 | 7,081,740 | 1,352,052 | 544,639 | 1,273,330 | 1,662,691 | 18,391,663 | | | | |
| OTTER TRAWLS, SMALL | | | | | | | | | | | | | | | |
| CENTRAL MAINE | 1 | 1.0 | | | 6 | 2.7 | | | 550 | 900 | | | | | |
| WESTERN MAINE | 26 | 238.0 | | | 401 | 236.16 | | | 75,728 | 67,457 | | | | | |
| EASTERN MASSACHUSETTS | 121 | 7,823.5 | | | 8,036 | 3,349.8 | | | 484,326 | 752,455 | | | | | |
| INNER GROUNDS | 5 | 21.4 | | | 2,222 | 3,608 | | | 2,222 | 3,608 | | | | | |
| EAST SIDE SOUTH CHANNEL | 92 | 548.1 | | | 1,395 | 757.7 | | | 108,309 | 673,615 | | | | | |
| WEST SIDE SOUTH CHANNEL | 8 | 7.6 | | | 49 | 34.5 | | | 1,502 | 5,738 | | | | | |
| NORTHERN EDGE OF GEORGES | 18 | 7.6 | | | 58 | 32.8 | | | 16,620 | 26,595 | | | | | |
| CENTRAL AND SOUTHEAST GEORGES | 9 | 10.4 | | | 51 | 33.5 | | | 81,525 | 4,500 | | | | | |
| SOUTHWEST GEORGES | 69 | 324.1 | | | 2,677 | 1,384.9 | | | 16,555 | 69,796 | | | | | |
| WESTERN MASSACHUSETTS | 71 | 364.3 | | | 1,713 | 1,363.2 | | | 16,545 | 22,945 | | | | | |
| OFF NO MAN'S LAND | 22 | 57.7 | | | 265 | 120.4 | | | 13,910 | 13,515 | | | | | |
| OFF LONG ISLAND SHORE | 29 | 57.3 | | | 208 | 188.2 | | | 7,385 | 7,385 | | | | | |
| OFF LONG ISLAND | | | | | | | | | | | | | | | |
| TOTAL | 1/206 | 10,740.0 | 15,532 | 8,461.1 | 863,198 | 2,374,740 | 307,360 | 36,760 | 592,304 | 251,536 | 15,830,066 | | | | |

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTES AT END OF TABLE.

NEW ENGLAND FISHERIES

LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1961 - Continued

| GEAR AND SUBAREA | CRAFT FISHING | | TRIPS | DAYS ABSENT | DAYS FISHED | COO, DRAM, | | | CUSH, DRAM, | FLOUNCER, ROUID | | | |
|---|---------------|----------|----------|-------------|-------------|------------|--------------|---------------|-------------|-----------------|------------------|-------------------|--------------------|
| | NUMBER | NUMBER | | | | NUMBER | LARGE POUNDS | MARKET POUNDS | | SCROD POUNDS | GRAY SOLE POUNDS | LEMON SOLE POUNDS | YELLOW-TAIL POUNDS |
| FLOATING TRAPS, EASTERN MASSACHUSETTS | 9 | 663.0 | 763.0 | 66.3 | 663.0 | - | 65 | 9,135 | - | - | - | - | - |
| SINK GILL NETS, EASTERN MASSACHUSETTS | 13 | 766.0 | 766.0 | 779 | 773.0 | - | 292,353 | 376,330 | 3,305 | - | - | - | 1,860 |
| DRAFT GILL NETS, EASTERN MASSACHUSETTS | 19 | 176.0 | 176.0 | 176 | 83.6 | - | - | - | - | - | - | - | - |
| PURSE SEINES: EASTERN MASSACHUSETTS | 9 | 207.0 | 207.0 | 208 | 80.2 | - | - | - | - | - | - | - | - |
| NORTHERN MASSACHUSETTS | 1 | 3.0 | 3.0 | 3 | 10.3 | - | - | - | - | - | - | - | - |
| SOUTHERN MASSACHUSETTS | 1 | 1.0 | 1.0 | 1 | 0.3 | - | - | - | - | - | - | - | - |
| RHODE ISLAND SHORE | 1 | 1.0 | 1.0 | 1 | 0.3 | - | - | - | - | - | - | - | - |
| TOTAL | 1/12 | 240.0 | 240.0 | 243 | 96.4 | - | - | - | - | - | - | - | - |
| SCALLOP DRIFTS: EASTERN MASSACHUSETTS | 6 | 121.0 | 121.0 | 169 | 79.6 | - | - | - | - | - | - | - | 795 |
| WEST SIDE SOUTH CHANNEL | 1 | 92.0 | 92.0 | 554 | 414.4 | - | - | - | - | - | - | - | 125 |
| EAST SIDE SOUTH CHANNEL | 46 | 1,103 | 1,103 | 4,057 | 2,727.7 | - | - | - | - | - | - | - | 500 |
| NORTHERN EDGE OF GEORGES | 67 | 547.0 | 547.0 | 2,099 | 1,601.6 | - | - | 250 | 125 | - | - | - | 3,640 |
| SOUTHERN EDGE OF GEORGES | 50 | 330.0 | 330.0 | 2,078 | 1,483.8 | - | - | 125 | - | - | - | - | 425 |
| SOUTH WEST COAST OF GEORGES | 30 | 112.9 | 112.9 | 678 | 1,463.8 | - | - | 65 | - | - | - | - | 415 |
| NANTUCKET SHOALS AND LIGHTSHIP | 1 | 1.0 | 1.0 | 1 | 1.0 | - | - | - | - | - | - | - | - |
| OFF NO MANS LAND | 1 | 1.0 | 1.0 | 10 | 7.9 | - | - | - | - | - | - | - | - |
| RHODE ISLAND SHORE | 2 | 2.0 | 2.0 | 10 | 6.0 | - | - | - | - | - | - | - | - |
| OFF LONG ISLAND | 1/81 | 1,639.0 | 1,639.0 | 11,336 | 7,840.7 | - | 3,125 | 3,500 | 3,125 | - | - | - | 125 |
| TOTAL | 1/81 | 1,639.0 | 1,639.0 | 11,336 | 7,840.7 | - | 3,125 | 3,500 | 3,125 | - | - | - | 3,549.5 |
| POUND NETS: EASTERN MASSACHUSETTS | 9 | 780.0 | 780.0 | 780 | 778.0 | - | 1,918 | 800 | 90 | - | - | - | - |
| WEST SIDE SOUTH CHANNEL | 9 | 337.0 | 337.0 | 337 | 337.0 | - | - | - | - | - | - | - | - |
| SOUTHERN MASSACHUSETTS | 1 | 7.0 | 7.0 | 7 | 7.0 | - | - | - | - | - | - | - | - |
| TOTAL | 19 | 1,124.0 | 1,124.0 | 1,124 | 1,122.0 | - | 1,918 | 800 | 90 | - | - | - | - |
| GRAND TOTAL | 1/712 | 26,041.0 | 26,041.0 | 66,798 | 39,892.9 | - | 9,893,798 | 16,975,826 | 4,974,652 | - | - | - | 1,967,416 |
| | | | | | | | | | | | | | 2,407,870 |
| | | | | | | | | | | | | | 34,666,932 |

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

NEW ENGLAND FISHERIES

LANDINGS AT MASSACHUSETTS PORTS SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1961 - Continued

| GEAR AND SUBAREA | FLOUNDERS, ROUND - CONTINUED | | | | HADDOCK, DRAWN | | RED, ROUND | HAKE | | | MACKEREL, ROUND | HALIBUT, DRAWN | MENHADEN, ROUND |
|--|------------------------------|---------|-------|------------|----------------|--------|------------|----------------|---------|--------|-----------------|----------------|-----------------|
| | BLACK-BACK | DAB | FLUKE | LARGE | SCROD | POUNDS | | WHITE, DRESSED | | POUNDS | | | |
| | | | | | | | | LARGE | SMALL | | | | |
| LONGLINES (TRAIL LINES): | | | | | | | | | | | | | |
| WESTERN MAINE | | | | 3,630 | 1,200 | | | | | | 582 | | |
| EASTERN MAINE | | | | 26,453 | 39,695 | | 950 | | | | 6,199 | | |
| EASTERN NOVA SCOTIA | | | | 361,432 | 324,595 | | 2,010 | | | | 5,159 | | |
| WEST SIDE SOUTH CHANNEL | 460 | | | 1,297,644 | 631,330 | | 265 | | | | 27,312 | 835 | |
| TOTAL | 79,410 | | | 1,927,262 | 140,675 | | 1,215 | | | | 7,428 | 835 | |
| HANDLINES: | | | | | | | | | | | | | |
| EASTERN MASSACHUSETTS | 1,585 | 15 | 3,286 | 450 | | | 95 | | 30 | | 361 | | |
| WEST SIDE SOUTH CHANNEL | 5 | 15 | 362 | 192,853 | | | | | | 146 | 1,036 | | |
| TOTAL | 1,585 | 20 | 3,654 | 193,033 | | | 95 | | 30 | 146 | 1,397 | | |
| OTTER TRAWLS, LARGE: | | | | | | | | | | | | | |
| SOUTHWEST GRAND BANK | | | | 88 | 185 | | | | | 420 | 5,330 | | |
| NORTHEAST CAPE BRETON | | | | 1,391 | 746 | | | | 190 | | 434 | | |
| MID SAINE BANK | 520 | | | 50 | 90 | | | | | | 486 | | |
| BANQUEREAU | 1,095 | | | 433 | 500 | | | | | | 1,294 | | |
| MIDDLE GROUND | 4,172 | | | 2,765 | 4,698 | | | | | | 44 | | |
| HORSESHOE GROUND | 87 | | | 1,648 | 1,885 | | | | | | 142 | | |
| EASTERN NOVA SCOTIA | 243 | | | 3,201 | 6,130 | | | | 620 | | 1,835 | | |
| EMERALD BANK | 1,860 | | | 5,105 | 15,599 | | | | 1,701 | | 5,334 | | |
| SOUTH WEST SCOTIA | 750 | | | 5,975 | 2,414,509 | | | | 28,613 | | 50 | | |
| EAST BROWNS AND LA HAVE | 3,725 | | | 442,965 | 556,969 | | 53,900 | | 4,150 | | 9,654 | | |
| SOUTHERN NOVA SCOTIA | 250 | | 500 | 2,929,676 | 2,929,676 | | | | 35,487 | | 4,592 | | |
| WESTERN BROWNS | 1,130 | | | 30,700 | 20,400 | | | | 19,700 | | 6,703 | | |
| SOUTHERN BAY OF FUNDY | | | | 5,675 | 16,030 | | | | 1,740 | | | | |
| SOUTHERN BAY OF FUNDY | | | | 9,625 | 1,445 | | | | 1,25 | | | 140 | |
| EASTERN MAINE | 55 | | | 1,445 | 1,445 | | | | | | | | |
| EASTERN MASSACHUSETTS | 1,160 | | | 7,620 | 29,946 | | | | 1,170 | | 230 | | |
| WEST SIDE SOUTH CHANNEL | 65,397 | 40,940 | | 1,102,899 | 2,656,895 | | | | 41,610 | | 1,010 | | |
| EAST SIDE SOUTH CHANNEL | 44,268 | 39,990 | | 1,953,640 | 1,953,640 | | | | 3,511 | | 2,463 | | |
| NORTHERN EDGE OF GEORGES | 82,690 | 27,125 | | 6,299,445 | 3,570,330 | | 1,000 | | 26,725 | | 4,007 | | |
| CENTRAL AND SOUTHWEST GEORGES | 147,282 | 42,000 | | 3,229,010 | 6,433,895 | | | | 13,160 | | 4,985 | | |
| WESTERN GEORGES | 10,250 | 6,200 | | 487,800 | 671,000 | | | | 1,400 | | 1,344 | | |
| NANTUCKET SHOALS AND LIGHTSHIP | | | | 27,800 | 57,000 | | | | 4,050 | | | | |
| TOTAL | 352,037 | 197,795 | 500 | 17,760,016 | 31,386,358 | | 54,900 | | 243,418 | | 14,805 | 66,970 | |
| OTTER TRAWLS, MEDIUM: | | | | | | | | | | | | | |
| NORTHEAST CAPE BRETON | | | | 60 | 687 | | | | | | | 127 | |
| BANQUEREAU | 728 | | | 162 | 449 | | | | 290 | | | | |
| MIDDLE GROUND | 3,300 | | | 450 | 174 | | | | 37 | | | 15 | |
| HORSESHOE GROUND | 126 | | | 1,540 | 1,445 | | | | 806 | | 628 | 201 | |
| EASTERN NOVA SCOTIA | 50 | | | 207 | 500 | | | | 150 | | | 20 | |
| CENTRAL NOVA SCOTIA | 275 | | | 1,897 | 4,173 | | | | 1,517 | | | 169 | |
| EAST BROWNS AND LA HAVE | 22,350 | | | 1,262,270 | 1,900,918 | | | | 1,265 | | | 961 | |
| TOTAL | 1,050 | | | 1,282,270 | 1,900,918 | | | | 9,253 | | | 1,677 | |

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTES AT END OF TABLE.

NEW ENGLAND FISHERIES

LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1961 - Continued

| GEAR AND SUBAREA | FLOUNDER, ROUND - CONTINUED | | | | HADDOCK, DRAKIN | | RED, ROUND | HAKE | | HALIBUT, DRAKIN | MACKEREL, ROUND | MENHADEN, ROUND |
|-----------------------------------|-----------------------------|-----------|-----------|------------|-----------------|-----------|------------|----------------|--------|-----------------|-----------------|-----------------|
| | BLACK-BACK | DAB | FLUKE | LARGE | SCROD | POUNDS | | WHITE, DRESSED | | | | |
| | | | | | | | | LARGE | SMALL | | | |
| POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | |
| OTTER TRAWLS, MEDIUM - CONTINUED: | | | | | | | | | | | | |
| NEW BRUNSWICK | | | | | | | | | | | | |
| NEW ENGLAND | | | | | | | | | | | | |
| WESTERN NOVA SCOTIA | 70 | 11,403 | - | 327,260 | 412,767 | - | 15,027 | 3,914 | 3,769 | - | - | - |
| WESTERN NOVA SCOTIA | 2,620 | 1,310 | - | 1,251,690 | 1,520,014 | - | 1,860 | 1,860 | 10,786 | - | - | - |
| NORTHERN BAY OF FUNDY | 303 | 1,310 | - | 1,251,690 | 1,520,014 | - | 1,860 | 1,860 | 5,699 | - | - | - |
| NORTHERN BAY OF FUNDY | 1,238 | 2,933 | - | 228,038 | 266,279 | - | 14,750 | 4,512 | 953 | - | - | - |
| WESTERN MAINE | 196 | 1,900 | - | 737,725 | 36,910 | - | 31,690 | 3,500 | 1,659 | - | - | - |
| WESTERN MAINE | 196 | 1,900 | - | 737,725 | 36,910 | - | 31,690 | 3,500 | 1,659 | - | - | - |
| EASTERN MASSACHUSETTS | 244 | 281,508 | 1,145 | 703,561 | 1,174,363 | 95,670 | 33,684 | 63,992 | 2,124 | - | - | - |
| INNER GROUNDS | 529 | 27,015 | - | 406,169 | 205,722 | - | 26,135 | 18,266 | 1,974 | - | - | - |
| WEST SIDE SOUTH CHANNEL | 1,034 | 269,647 | 1,605 | 7,095,445 | 11,026,062 | - | 1,651,370 | 393,603 | 6,078 | - | - | - |
| WEST SIDE SOUTH CHANNEL | 1,034 | 269,647 | 1,605 | 7,095,445 | 11,026,062 | - | 1,651,370 | 393,603 | 6,078 | - | - | - |
| NORTHERN EDGE OF GEORGES | 195 | 1,900 | 1,100 | 6,041,274 | 6,040,265 | - | 205,959 | 36,879 | 12,359 | - | - | - |
| NORTHERN EDGE OF GEORGES | 195 | 1,900 | 1,100 | 6,041,274 | 6,040,265 | - | 205,959 | 36,879 | 12,359 | - | - | - |
| CENTRAL AND SOUTHEAST GEORGES | 733 | 641 | 4,320 | 2,703,277 | 3,467,340 | - | 2,980 | 1,645 | 2,646 | - | - | - |
| CENTRAL AND SOUTHEAST GEORGES | 733 | 641 | 4,320 | 2,703,277 | 3,467,340 | - | 2,980 | 1,645 | 2,646 | - | - | - |
| SOUTHWEST GEORGES | 89,778 | 22,166 | 133,453 | 1,636,651 | 1,192,656 | - | 1,150 | 1,375 | 1,444 | - | - | - |
| SOUTHWEST GEORGES | 89,778 | 22,166 | 133,453 | 1,636,651 | 1,192,656 | - | 1,150 | 1,375 | 1,444 | - | - | - |
| NANTUCKET SHOALS AND LIGHTSHIP | 1,912,785 | 7,211 | 1,260,792 | 7,677,612 | 1,403,956 | 250 | 2,400 | 1,375 | 1,444 | - | - | - |
| NANTUCKET SHOALS AND LIGHTSHIP | 1,912,785 | 7,211 | 1,260,792 | 7,677,612 | 1,403,956 | 250 | 2,400 | 1,375 | 1,444 | - | - | - |
| OFF LONG ISLAND | 29,745 | - | 511,660 | 1,000 | 115 | 55,000 | - | 330 | - | - | - | - |
| OFF LONG ISLAND | 29,745 | - | 511,660 | 1,000 | 115 | 55,000 | - | 330 | - | - | - | - |
| RHODE ISLAND SHORE | 50 | - | - | 1,125 | - | - | - | - | - | - | - | - |
| RHODE ISLAND SHORE | 50 | - | - | 1,125 | - | - | - | - | - | - | - | - |
| OFF LONG ISLAND | 19,625 | - | 1,285,704 | 675 | 375 | - | - | - | - | - | - | - |
| OFF LONG ISLAND | 19,625 | - | 1,285,704 | 675 | 375 | - | - | - | - | - | - | - |
| TOTAL | 4,742,340 | 1,409,422 | 3,227,345 | 26,873,366 | 31,011,034 | 4,336,765 | 645,455 | 2,461,405 | 72,327 | 815 | - | - |
| OTTER TRAWLS, SMALL: | | | | | | | | | | | | |
| EASTERN MAINE | 400 | 775 | - | 1,625 | 450 | - | 6,740 | 50 | 55 | - | - | - |
| EASTERN MAINE | 400 | 775 | - | 1,625 | 450 | - | 6,740 | 50 | 55 | - | - | - |
| WESTERN MAINE | 310 | 94 | 440 | 316,625 | 290,560 | 235 | 3,664 | 765 | 264 | - | - | - |
| WESTERN MAINE | 310 | 94 | 440 | 316,625 | 290,560 | 235 | 3,664 | 765 | 264 | - | - | - |
| INNER MASSACHUSETTS | 4,465 | 434,757 | 12,927 | 991,657 | 1,206,236 | 1,940,200 | 37,691 | 27,626 | 3,212 | - | - | - |
| INNER MASSACHUSETTS | 4,465 | 434,757 | 12,927 | 991,657 | 1,206,236 | 1,940,200 | 37,691 | 27,626 | 3,212 | - | - | - |
| INNER GROUNDS | 1,783,143 | 1,600 | - | 21,765 | 16,022 | - | 116,902 | 56 | 56 | - | - | - |
| INNER GROUNDS | 1,783,143 | 1,600 | - | 21,765 | 16,022 | - | 116,902 | 56 | 56 | - | - | - |
| WEST SIDE SOUTH CHANNEL | 1,780,715 | 43,374 | 59,122 | 390,416 | 424,960 | 434,700 | 4,301 | 8,399 | 1,119 | - | - | - |
| WEST SIDE SOUTH CHANNEL | 1,780,715 | 43,374 | 59,122 | 390,416 | 424,960 | 434,700 | 4,301 | 8,399 | 1,119 | - | - | - |
| NANTUCKET SHOALS AND LIGHTSHIP | 28,378 | 170,668 | 305 | 273,033 | 129,002 | 262,400 | 7,745 | 4,365 | 4,445 | - | - | - |
| NANTUCKET SHOALS AND LIGHTSHIP | 28,378 | 170,668 | 305 | 273,033 | 129,002 | 262,400 | 7,745 | 4,365 | 4,445 | - | - | - |
| NORTHERN EDGE OF GEORGES | 41,955 | 11,215 | 2,326 | 93,837 | 91,865 | - | - | - | - | - | - | - |
| NORTHERN EDGE OF GEORGES | 41,955 | 11,215 | 2,326 | 93,837 | 91,865 | - | - | - | - | - | - | - |
| CENTRAL AND SOUTHEAST GEORGES | 6,750 | 11,675 | - | 40,000 | 24,625 | - | - | - | - | - | - | - |
| CENTRAL AND SOUTHEAST GEORGES | 6,750 | 11,675 | - | 40,000 | 24,625 | - | - | - | - | - | - | - |
| SOUTHWEST GEORGES | 1,764,630 | 5,570 | 597,617 | 203,335 | 319,793 | - | 115 | 2,800 | - | - | - | - |
| SOUTHWEST GEORGES | 1,764,630 | 5,570 | 597,617 | 203,335 | 319,793 | - | 115 | 2,800 | - | - | - | - |
| NANTUCKET SHOALS AND LIGHTSHIP | 634,253 | 255 | 424,961 | 6,490 | 6,005 | - | - | - | 150 | - | - | - |
| NANTUCKET SHOALS AND LIGHTSHIP | 634,253 | 255 | 424,961 | 6,490 | 6,005 | - | - | - | 150 | - | - | - |
| OFF LONG ISLAND | 25,440 | - | 320,459 | 1,670 | 93 | - | - | - | 38 | - | - | - |
| OFF LONG ISLAND | 25,440 | - | 320,459 | 1,670 | 93 | - | - | - | 38 | - | - | - |
| OFF LONG ISLAND | 3,297 | - | 315,933 | 1,125 | 290 | - | - | - | - | - | - | - |
| OFF LONG ISLAND | 3,297 | - | 315,933 | 1,125 | 290 | - | - | - | - | - | - | - |
| TOTAL | 6,686,723 | 784,601 | 1,935,424 | 2,326,609 | 2,647,062 | 2,642,715 | 94,175 | 162,013 | 5,361 | 1,735* | - | - |
| FLOATING TRAPS | | | | | | | | | | | | |
| EASTERN MASSACHUSETTS | 15 | - | - | - | - | - | - | - | 162 | - | - | - |
| EASTERN MASSACHUSETTS | 15 | - | - | - | - | - | - | - | 162 | - | - | - |

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTES AT END OF TABLE.

LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1961 - Continued

| GEAR AND SUBAREA | FLOUNDERS, ROUND - CONTINUED | | | | HADDOCK, DRAWN | | HAKE | | | HALIBUT, DRAWN POUNDS | MACKEREL, ROUND POUNDS | MENHADEN, ROUND POUNDS |
|--|------------------------------|---------------|-----------------|-----------------|-----------------|----------------------|-----------------|-----------------|---------|--------------------------|---------------------------|---------------------------|
| | BLACK-BACK POUNDS | DAB POUNDS | FLUKE POUNDS | LARGE POUNDS | SCROD POUNDS | RED, ROUND POUNDS | WHITE, DRESSED | | | | | |
| | | | | | | | LARGE POUNDS | SMALL POUNDS | | | | |
| SINK GILL NETS, EASTERN MASSACHUSETTS | 53,575 | 5 | - | 146,935 | - | - | 791,625 | - | 95 | - | - | |
| DRIIFT GILL NETS, EASTERN MASSACHUSETTS | - | - | - | - | - | - | - | - | - | 51,662 | - | |
| PURSE SEINES: EASTERN MASSACHUSETTS | - | - | - | - | - | - | - | - | - | 5,625 | 442,910 | |
| WEST SIDE SOUTH CHANNEL | - | - | - | - | - | - | - | - | - | - | 2,799,440 | |
| SOUTHERN MASSACHUSETTS | - | - | - | - | - | - | - | - | - | - | 481,800 | |
| RHODE ISLAND SHORE | - | - | - | - | - | - | - | - | - | - | 351,250 | |
| TOTAL | - | - | - | - | - | - | - | - | - | 6,150 | 3,329,410 | |
| SCALLOP DRIFGES: EASTERN MASSACHUSETTS | 920 | - | - | - | - | - | - | - | - | - | - | |
| WEST SIDE SOUTH CHANNEL | 760 | - | - | - | - | - | - | - | - | - | - | |
| NORTHERN EDGE OF GEORGES | 1,150 | 165 | 165 | - | - | - | - | - | - | - | - | |
| CENTRAL AND SOUTHEAST GEORGES | - | - | 220 | - | - | - | - | - | - | - | - | |
| SOUTHWEST GEORGES | 680 | - | 290 | - | - | - | - | - | - | - | - | |
| PORTLAND ISLANDS AND LIGHTSHIP | 1,350 | - | 395 | - | - | - | - | - | - | - | - | |
| OFF LONG ISLAND | - | - | 180 | - | - | - | - | - | - | - | - | |
| TOTAL | 3,765 | 3,765 | 3,71,005 | - | - | - | - | - | - | - | - | |
| POUND NETS: EASTERN MASSACHUSETTS | 125 | - | 3,567 | - | - | 108,365 | - | - | 590 | 82,253 | 2,460 | |
| WEST SIDE SOUTH CHANNEL | 1,615 | - | 36,625 | - | - | - | - | - | - | 568,930 | - | |
| TOTAL | 1,940 | - | 42,212 | - | - | 108,365 | - | - | 590 | 1,371,183 | 33,429 | |
| GRAND TOTAL | 11,923,370 | 2,791,908 | 5,210,140 | 491,227,221 | 65,185,306 | 7,146,075 | 1,329,104 | 431,367 | 189,084 | 1,609,941 | 3,362,639 | |

(CONTINUED ON NEXT PAGE)

SEC FOOTNOTES AT END OF TABLE.

LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1961 - Continued

| GEAR AND SUBAREA | OCEAN TRUCK, ROUND | POLLOCK, DRAUM | SCUP OR BROWN, ROUND | SMOR- DRESSER | WHITTING | | WOLF- DRAWN | SCALLOPS, SEA (MATS) | OTHER, LABLED | TOTAL, LABLED |
|---|--------------------------|-------------------|----------------------------|------------------|----------|--------|----------------|----------------------------|------------------|------------------|
| | | | | | DRESSED | ROUND | | | | |
| LONG LINES (TRAWL LINES): | | | | | | | | | | |
| WESTERN MAINE | - | 100 | - | - | - | - | 75 | - | 175 | 17,072 |
| EASTERN MASSACHUSETTS | - | 9,920 | - | - | - | - | 2,640 | - | 31,925 | 1,152,177 |
| INNER GROUNDS | - | 16,305 | - | - | - | - | 600 | - | 2,240 | 611,364 |
| WEST SIDE SOUTH CHANNEL | - | 224,707 | - | - | - | - | 5,961 | - | 257 | 2,650,973 |
| TOTAL | - | 49,032 | - | - | - | - | 9,476 | - | 34,597 | 4,431,560 |
| HAND LINES: | | | | | | | | | | |
| EASTERN MASSACHUSETTS | - | 170,430 | - | - | - | - | 20 | - | 113,647 | 570,634 |
| WEST SIDE SOUTH CHANNEL | - | 177,833 | - | - | - | - | 125 | - | 969 | 520,795 |
| TOTAL | - | 197,263 | - | - | - | - | 145 | - | 1,114,636 | 1,099,419 |
| HARPOONS: | | | | | | | | | | |
| MISMAINE BANK (OCCASIONAL) | - | - | - | 230 | - | - | - | - | - | 230 |
| EASTERN MASSACHUSETTS | - | - | - | - | - | - | - | - | 51,131 | 51,131 |
| EASTERN MIDDLE GEORGES | - | - | - | 26,731 | - | - | - | - | - | 26,731 |
| CENTRAL SOUTH GEORGES | - | - | - | 200,032 | - | - | - | - | - | 200,032 |
| NAVY TACKET SHOALS AND LIGHTSHIP OFF NO MAN'S LAND | - | - | - | 146,237 | - | - | - | - | - | 146,237 |
| TOTAL | - | - | - | 467,691 | - | - | - | - | 51,131 | 518,822 |
| OTTER TRAWLS - LARGE: | | | | | | | | | | |
| SOUTHEAST GRAND BANK | 85,000 | - | - | - | - | - | - | - | - | 85,000 |
| SOUTHWEST GRAND BANK | 3,142,140 | 789 | - | - | - | - | 263 | - | - | 3,150,426 |
| S. PIERRE BANK | 316,190 | - | - | - | - | - | - | - | - | 316,190 |
| NORWICH WATKINS BANK | 1,117,000 | - | - | - | - | - | - | - | - | 1,117,000 |
| NORTHEAST CAPE BRETON | 5,071,569 | 1,833 | - | - | - | - | 84 | - | - | 5,085,102 |
| MISMAINE BANK | 997,000 | 135 | - | - | - | - | - | - | - | 999,632 |
| BANQUEREAU | 1,680,198 | 16,105 | - | - | - | 191 | - | - | - | 1,904,334 |
| MALDEN | 4,689,940 | 9,686 | - | - | - | 16 | - | - | - | 4,755,600 |
| MALDEN COAST | 2,746,776 | - | - | - | - | 382 | - | - | - | 2,681,898 |
| HORSESHOE GROUND | 71,564 | 13,310 | - | - | - | 232 | - | - | - | 2,780,772 |
| EASTERN NOVA SCOTIA | 4,30,035 | 8,479 | - | - | - | - | - | - | - | 449,465 |
| BERGALD BANK | 5,411,791 | 29,966 | - | - | - | - | - | - | - | 5,484,700 |
| WESTERN NOVA SCOTIA | 1,721,045 | 833,622 | - | - | - | 14,225 | - | - | - | 3,169,892 |
| EAST BROWNS AND HAVRE | 1,585 | 683,962 | - | - | - | 225 | - | - | - | 3,769,669 |
| SOUTHERN NOVA SCOTIA | 11,700 | 9,300 | - | - | - | - | - | - | - | 6,622,091 |
| SOUTHERN BAY OF FUNDY | 13,600 | 26,975 | - | - | - | 300 | - | - | - | 110,750 |
| WESTERN BAY OF FUNDY | 1,630 | 61,305 | - | - | - | 100 | - | - | - | 263,305 |
| EASTERN MAINE | 1,400 | 103,400 | - | - | - | - | - | - | - | 2,665 |
| EASTERN MASSACHUSETTS | 350,500 | 7,073 | - | - | - | - | - | - | - | 153,477 |
| INNER GROUNDS | 453,960 | 530,226 | - | - | - | - | - | - | - | 3,991,461 |
| WEST SIDE SOUTH CHANNEL | 2,300 | 1,560,165 | - | - | - | - | - | - | - | 6,707,902 |
| EAST SIDE SOUTH CHANNEL | 5,850 | 1,765,500 | - | - | - | - | - | - | - | 1,737 |
| NORTHERN EDGE OF GEORGES | 5,850 | 1,765,500 | - | - | - | - | - | - | - | 30,949,749 |
| CENTRAL AND SOUTHEAST GEORGES | 5,850 | 1,765,500 | - | - | - | 400 | - | - | - | 650 |
| TOTAL | 12,686,975 | 11,925 | - | - | - | - | - | - | 425 | 12,686,975 |

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTES AT END OF TABLE.

NEW ENGLAND FISHERIES

LANDINGS AT MASSACHUSETTS PORTS SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1961 - Continued

| | GEAR AND SUBAREA | OCEAN PERCH, ROUND | | POLLOCK, DRAWN | | SCUP OR PORBEY, ROUND | | SHORDBACK FISH, DRESSED | | WHITING | | WOLF-FISH, DRAWN | | SCALLOPS, SLICKS (MEATS) | | OTHER, AS IS, LANDED | | TOTAL, AS IS, LANDED | | |
|----------------------------------|---|--------------------|-----------|----------------|--------|-----------------------|--------|-------------------------|---------|------------|---------|------------------|--------|--------------------------|-------|----------------------|-------|----------------------|-----------|--------|
| | | FOUND | POUNDS | FOUND | POUNDS | FOUND | POUNDS | DRESSED | FOUND | POUNDS | FOUND | POUNDS | FOUND | POUNDS | FOUND | POUNDS | FOUND | POUNDS | FOUND | POUNDS |
| OTTER TRAWLS, LARGE - CONTINUED: | | | | | | | | | | | | | | | | | | | | |
| | SOUTHWEST GEORGES, | - | 73,710 | - | - | - | - | - | - | - | 300,000 | - | 20,300 | - | - | 470 | - | 1,325,294 | | |
| | NANTUCKET SHOALS AND LIGHTSHIP, | - | 100 | - | - | - | - | - | - | 1,541,168 | - | 226,808 | - | - | - | 740 | - | 1,391,490 | | |
| | TOTAL | 31,480,935 | 5,427,020 | - | - | - | - | - | 21,025 | 1,541,168 | - | 226,808 | - | - | - | 8,276 | - | 103,192,357 | | |
| OTTER TRAWLS, MEDIUM: | | | | | | | | | | | | | | | | | | | | |
| | SOUTHWEST GRAND BANK | 13,500 | - | - | - | - | - | - | - | - | - | - | - | - | - | 162 | - | 13,662 | | |
| | ST. PIERRE BANK, | 13,500 | - | - | - | - | - | - | - | - | - | - | - | - | - | 162 | - | 13,662 | | |
| | NORTH-EAST CAPE BRETON, | 342,190 | - | - | - | - | - | - | - | - | - | - | - | - | - | 324 | - | 342,641 | | |
| | NANTUCKET | 1,444 | 1,444 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1,113,763 | | |
| | CANSO | 577,909 | 1,350 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 76,653 | | |
| | MIDDLE GROUND, | 356,700 | 878 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 368,551 | | |
| | HORSESHOE GROUND, | 963,550 | 15,668 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 985,137 | | |
| | EASTERN NOVA SCOTIA, | 305,600 | 600 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 709,204 | | |
| | EASTERN NOVA SCOTIA, | 3,678,954 | 11,750 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3,707,614 | | |
| | CENTRAL NOVA SCOTIA, | 1,759,054 | 480,694 | - | - | - | - | - | - | 1,610 | - | 250 | - | - | - | - | - | 3,707,614 | | |
| | SOUTHERN NOVA SCOTIA, | 3,399,618 | 712,974 | - | - | - | - | - | 100 | 230 | - | 18,708 | - | - | - | - | - | 5,692,528 | | |
| | WESTERN NOVA SCOTIA, | 57,865 | 236,785 | - | - | - | - | - | - | 37,200 | - | 5,684 | - | - | - | - | - | 5,071,430 | | |
| | SOUTHERN BAY OF FUNDY, | 2,700 | 1,500 | - | - | - | - | - | - | 220 | - | 250 | - | - | - | - | - | 3,401,577 | | |
| | NORTHERN BAY OF FUNDY, | 24,320 | 136,652 | - | - | - | - | - | - | 1,920 | - | 1,908 | - | - | - | - | - | 6,000 | | |
| | EASTERN MAINE, | 146,000 | 3,400 | - | - | - | - | - | - | - | - | 1,908 | - | - | - | - | - | 853,576 | | |
| | EASTERN MAINE, | 1,532,297 | 5,100 | - | - | - | - | - | - | - | - | 1,908 | - | - | - | - | - | 292,640 | | |
| | EASTERN MASSACHUSETTS, | 3,108,553 | 3,207 | - | - | - | - | - | - | 483,491 | - | 13,200 | - | - | - | - | - | 265,190 | | |
| | INNER GROUNDS, | 2,655,022 | 2,170,059 | - | - | - | - | - | - | 599,610 | - | 6,410 | - | - | - | - | - | 1,225,961 | | |
| | WEST SIDE SOUTH CHANNEL, | 1,451,795 | 1,451,795 | - | - | - | - | - | - | 15,840 | - | 2,212 | - | - | - | - | - | 3,743,153 | | |
| | EAST SIDE SOUTH CHANNEL, | 1,100,780 | 970,971 | - | - | - | - | - | - | 74,795 | - | 35,685 | - | - | - | - | - | 40,969,455 | | |
| | CENTRAL AND SOUTHEAST GEORGES, | 81,400 | 63,679 | - | - | - | - | - | - | 45,135 | - | 22,680 | - | - | - | - | - | 34,651,237 | | |
| | SOUTHWEST GEORGES, | 2,200 | 26,530 | - | - | - | - | - | - | 81,000 | - | 3,970 | - | - | - | - | - | 14,957,754 | | |
| | NANTUCKET SHOALS AND LIGHTSHIP, | 9,530 | 7,435 | - | - | - | - | - | - | 2,467,984 | - | 2,230 | - | - | - | - | - | 4,230,083 | | |
| | SOUTHERN MASSACHUSETTS, | - | 62,400 | - | - | - | - | - | - | 280 | - | 15,315 | - | - | - | - | - | 385,031 | | |
| | RHODE ISLAND SHORE, | - | 94,910 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 17,667,763 | | |
| | OFF LONG ISLAND, | - | 240 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6,139,965 | | |
| | TOTAL | 21,196,446 | 8,232,559 | - | - | - | - | - | 682,470 | 40,227,335 | - | 194,900 | - | - | - | - | - | 110,180 | 1,515,359 | |
| OTTER TRAWLS, SMALL: | | | | | | | | | | | | | | | | | | | | |
| | CENTRAL MAINE, | 4,200 | 690 | - | - | - | - | - | - | - | - | - | 515 | - | - | - | - | 10,145 | | |
| | WESTERN MAINE, | 424,314 | 7,000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 19,935 | | |
| | EASTERN MASSACHUSETTS, | 364,963 | 1,116,685 | - | - | - | - | - | - | 3,175,685 | - | 8,762 | - | - | - | - | - | 160,495 | | |
| | EAST SIDE SOUTH CHANNEL, | 46,662 | 46,662 | - | - | - | - | - | - | 18,369,176 | - | 38,905 | - | - | - | - | - | 5,434,519 | | |
| | WEST SIDE SOUTH CHANNEL, | 35,149 | 1,685 | - | - | - | - | - | - | 3,445,000 | - | 12,230 | - | - | - | - | - | 178,055 | | |
| | NORTHERN EDGE OF GEORGES, | 194,200 | 35,149 | - | - | - | - | - | - | 656,450 | - | 650 | - | - | - | - | - | 58,164 | | |
| | CENTRAL AND SOUTHEAST GEORGES, | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2,327,239 | | |
| | TOTAL | - | 400 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1,949,154 | | |

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTES AT END OF TABLE.

NEW ENGLAND FISHERIES

LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1961 - Continued

| | OCEAN PERCH, ROUND | FOLLOCK, DRAWN | SCUP OR PORGY, ROUND | SMOKE-FISH, DRESSED | MILTING | | WOLF-FISH, DRAWN | SCALLOPS, (WEATS) | OTHER, AS LANDED | TOTAL, AS LANDED | | |
|--|--------------------|----------------|----------------------|---------------------|-----------|------------|------------------|-------------------|------------------|------------------|--------|--------|
| | | | | | ROUNDS | POUNDS | | | | | ROUNDS | POUNDS |
| | | | | | | | | | | | | |
| OTTER TRAWLS, SMALL - CONTINUED: | | | | | | | | | | | | |
| SOUTHWEST GEORGES | - | - | 31,860 | - | - | 182,500 | - | - | 232,961 | 253,520 | | |
| NANTUCKET SHOALS AND LIGHTSHIP | 60 | 46 | 1,860 | - | - | - | 565 | - | 4,405,265 | 9,405,265 | | |
| EASTERN MASSACHUSETTS | 48 | 5 | 637,770 | - | - | - | - | - | 1,663,263 | 1,663,263 | | |
| SOUTHERN MASSACHUSETTS | 5 | - | - | - | - | - | - | - | 33,020 | 33,020 | | |
| RHODE ISLAND SHORE | - | - | - | - | - | - | - | - | 542,143 | 542,143 | | |
| OFF LONG ISLAND | 375 | - | 2,280 | - | - | - | - | - | 6,395 | 648,512 | | |
| TOTAL | 2,035,241 | 1,449,576 | 650,060 | 3,764 | 2,969,422 | 25,649,911 | 1,675 | 3,162 | 10,757,001 | 21,111,09 | | |
| FLOATING TRAWLS | | | | | | | | | | | | |
| EASTERN MASSACHUSETTS | - | 12,763 | - | - | - | 121,997 | - | - | 670,212 | 1,167,692 | | |
| SINK GILL NETS | | | | | | | | | | | | |
| EASTERN MASSACHUSETTS | - | 467,540 | - | - | - | 275 | 15 | - | 40,639 | 1,430,727 | | |
| DRIFT GILL NETS | | | | | | | | | | | | |
| EASTERN MASSACHUSETTS | - | - | - | - | - | 75 | - | - | 4,275 | 2,412 | | |
| PURSE SEINES: | | | | | | | | | | | | |
| EASTERN MASSACHUSETTS | - | - | - | - | - | - | - | - | 21,491,920 | 21,907,455 | | |
| OFF LONG ISLAND | - | - | - | - | - | - | - | - | 27,977,590 | 27,977,590 | | |
| SOUTHERN MASSACHUSETTS | - | - | - | - | - | - | - | - | 46,790 | 46,790 | | |
| RHODE ISLAND SHORE | - | - | - | - | - | - | - | - | 36,765 | 36,765 | | |
| TOTAL | - | - | - | - | - | - | - | - | 21,507,710 | 24,843,270 | | |
| SCALLOP DRIFTS: | | | | | | | | | | | | |
| EASTERN MASSACHUSETTS | - | - | - | - | - | - | - | 126,659 | - | 126,614 | | |
| WEST SIDE SOUTH CHANNEL | - | - | - | - | - | - | - | 1,156,012 | - | 1,155,962 | | |
| EAST SIDE SOUTH CHANNEL | - | - | - | - | - | - | - | 1,926,339 | - | 1,943,339 | | |
| NANTUCKET SHOALS AND LIGHTSHIP | - | - | - | - | - | - | - | 2,674,266 | - | 2,686,511 | | |
| EASTERN MASSACHUSETTS | - | - | - | - | - | - | - | 3,617,170 | - | 3,642,035 | | |
| CENTRAL AND SOUTHWEST GEORGES | - | - | - | - | - | - | - | 1,311,634 | - | 1,317,249 | | |
| SOUTHWEST GEORGES | - | - | - | - | - | - | - | 16,786 | - | 16,745 | | |
| NANTUCKET SHOALS AND LIGHTSHIP | - | - | - | - | - | - | - | 14,303 | - | 14,303 | | |
| OFF LONG ISLAND | - | - | - | - | - | - | - | 240 | - | 240 | | |
| TOTAL | - | - | - | - | - | - | - | 21,032,036 | - | 21,120,136 | | |
| POUND NETS: | | | | | | | | | | | | |
| EASTERN MASSACHUSETTS | 61,730 | - | - | 3,600 | 159,492 | - | - | - | 2,545,041 | 3,729,191 | | |
| SOUTHWEST GEORGES | 1,304 | - | - | - | 15 | - | - | - | 791,915 | 1,422,763 | | |
| SOUTHERN MASSACHUSETTS | - | - | - | - | - | - | - | - | 42,763 | 42,763 | | |
| TOTAL | 63,034 | - | 61,622 | 3,600 | 159,507 | - | - | - | 3,359,720 | 5,154,210 | | |
| GRAND TOTAL | 54,712,622 | 16,038,809 | 1,034,407 | 468,455 | 3,666,717 | 67,909,298 | 493,219 | 21,034,227 | 45,638,332 | 431,643,662 | | |

1/ EXCLUSIVE OF DUPLICATION. 2/ NO CATCH. 3/ INCIDENTAL CATCH.

NOTE: - OTTER TRAWLS ARE CLASSIFIED ACCORDING TO SIZE OF THE GRAFT. "SMALL" OTTER TRAWL CRAFT ARE THOSE 50 GROSS TONS CAPACITY OR UNDER; "MEDIUM," 51 GROSS TONS TO 150 GROSS TONS; AND "LARGE," 151 GROSS TONS OR GREATER. A SINGLE TRIP IS REPORTED FOR EACH VOYAGE. DAYS ABSENT IS THE MEASURE OF TIME, TO THE NEAREST COMPLETE DAY, THAT A VESSEL IS AWAY FROM PORT. DAYS FISHED IS THE TIME ACTUAL FISHING OPERATIONS WERE CARRIED ON, EXPRESSED TO THE NEAREST TENTH OF A DAY. TO OBTAIN FISHING TIME IN HOURS, MULTIPLY NUMBER OF DAYS FISHED BY 24.

NOTE: - OTHER TRAWLS ARE CLASSIFIED ACCORDING TO SIZE OF THE GRAFT. "SMALL" OTHER TRAWL CRAFT ARE THOSE 50 GROSS TONS CAPACITY OR UNDER; "MEDIUM," 51 GROSS TONS TO 150 GROSS TONS; AND "LARGE," 151 GROSS TONS OR GREATER. A SINGLE TRIP IS REPORTED FOR EACH VOYAGE. DAYS ABSENT IS THE MEASURE OF TIME, TO THE NEAREST COMPLETE DAY, THAT A VESSEL IS AWAY FROM PORT. DAYS FISHED IS THE TIME ACTUAL FISHING OPERATIONS WERE CARRIED ON, EXPRESSED TO THE NEAREST TENTH OF A DAY. TO OBTAIN FISHING TIME IN HOURS, MULTIPLY NUMBER OF DAYS FISHED BY 24.

NOTE: - OTTER TRAWLS ARE CLASSIFIED ACCORDING TO SIZE OF THE GRAFT. "SMALL" OTTER TRAWL CRAFT ARE THOSE 50 GROSS TONS CAPACITY OR UNDER; "MEDIUM," 51 GROSS TONS TO 150 GROSS TONS; AND "LARGE," 151 GROSS TONS OR GREATER. A SINGLE TRIP IS REPORTED FOR EACH VOYAGE. DAYS ABSENT IS THE MEASURE OF TIME, TO THE NEAREST COMPLETE DAY, THAT A VESSEL IS AWAY FROM PORT. DAYS FISHED IS THE TIME ACTUAL FISHING OPERATIONS WERE CARRIED ON, EXPRESSED TO THE NEAREST TENTH OF A DAY. TO OBTAIN FISHING TIME IN HOURS, MULTIPLY NUMBER OF DAYS FISHED BY 24.

NEW ENGLAND FISHERIES

LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF FISHERY - BY AREA AND SUBAREA, 1961

| AREA AND SUBAREA | CRAFT FISHING | | TRIPS | | DAYS ASCENT | | DAYS FISHED | | COD, DRAWN | | CLISK, DRAWN | | FLOUNDERS, ROUND | | | | | | |
|--|---------------|----------|----------|----------|-------------|----------|-------------|----------|------------|------------|--------------|-------|------------------|-----------|--------|------------|--------|-------------|------------|
| | NUMBER | AREA XX) | NUMBER | AREA XX) | NUMBER | AREA XX) | NUMBER | AREA XX) | POUNDS | MARKET | POUNDS | SCROD | POUNDS | GRAY SOLE | POUNDS | LEMON SOLE | POUNDS | YELLOW-TAIL | POUNDS |
| | | | | | | | | | | | | | | | | | | | |
| GULF OF ST. LAWRENCE (AREA XIX), EAST GULF ST. LAWRENCE, | 2 | | 0.7 | | 10 | | 2.0 | | - | | - | - | - | - | - | - | - | - | - |
| OFF GRAND BANK (AREA XXI), GRAND BANK, | 1 | | 17.8 | | 6 | | 1.5 | | - | | - | - | - | - | - | - | - | - | - |
| SOUTHWEST GRAND BANK, | 6 | | 1.8 | | 28 | | 7.0 | | - | | - | - | - | - | - | - | - | - | - |
| ST. PIERRE BANK, | | | | | | | | | - | | - | - | - | - | - | - | - | - | - |
| TOTAL | 1/6 | | 20.1 | | 300 | | 57.2 | | 473 | | - | - | - | 350 | | 369 | | - | - |
| OFF NOVA SCOTIA (AREA XXI): | | | | | | | | | | | | | | | | | | | |
| NORTHEAST CAPE BRETON, | 15 | | 31.4 | | 415 | | 119.9 | | 924 | 4,542 | | | | 100 | | 2,721 | | | |
| GRAND BANK, | 2 | | 25.4 | | 297 | | 86.7 | | 1,632 | 2,800 | | | | 400 | | 2,778 | | | |
| BANQUERAU, | 18 | | 33.3 | | 415 | | 110.3 | | 1,700 | 19,784 | 3,750 | | | 566 | | 162,569 | | | |
| CANSO, | 6 | | 4.0 | | 56 | | 14.7 | | 1,145 | 4,810 | | | | 75 | | 31,046 | | | |
| MIDDLE GROUND, | 23 | | 23.5 | | 282 | | 72.3 | | 1,635 | 2,452 | | | | 925 | | 6,657 | | | |
| EXPANSIVE GROUND, | 11 | | 4.8 | | 51 | | 13.9 | | 1,295 | 1,232 | | | | 1,506 | | 4,990 | | | |
| CENTRAL NOVA SCOTIA, | 25 | | 65.9 | | 817 | | 204.1 | | 5,266 | 13,000 | 70 | | | 7,349 | | 6,592 | | | |
| EAST BROWNS AND LA HAVÉ, | 65 | | 112.8 | | 1,006 | | 544.4 | | 217,257 | 929,776 | 66,767 | | | 110,057 | | 7,527 | | | 3,550 |
| WESTERN NOVA SCOTIA, | 97 | | 102.5 | | 817 | | 256.6 | | 90,502 | 225,300 | 88,760 | | | 22,519 | | 15,370 | | | 5,050 |
| WESTERN BROWNS, | 102.5 | | 102.5 | | 872 | | 261 | | 389,869 | 1,574,261 | 95,340 | | | 5,215 | | 2,700 | | | 15,150 |
| SOUTHERN NOVA SCOTIA, | 8 | | 5.9 | | 45 | | 16.1 | | 389,597 | 1,569 | | | | 5,619 | | 6,607 | | | |
| SOUTHERN BAY OF FUNDY, | 8 | | 3.0 | | 30 | | 17.8 | | 13,600 | 15,000 | | | | 150 | | 1,250 | | | |
| NORTHERN BAY OF FUNDY, | 14 | | 546.2 | | 161 | | 92.4 | | 43,715 | 67,130 | | | | 4,748 | | 5,677 | | | 135 |
| TOTAL | 1/89 | | 546.2 | | 5,595 | | 2,275.9 | | 707,738 | 1,387,671 | 263,133 | | | 4,748 | | 249,386 | | | 23,865 |
| NEW ENGLAND (AREA XXII): | | | | | | | | | | | | | | | | | | | |
| EASTERN MAINE, | 10 | | 7.5 | | 63 | | 26.6 | | 10,400 | 17,970 | 9,650 | | | 4,335 | | 3,120 | | | |
| CENTRAL MAINE, | 1 | | 1.0 | | 9 | | 3.7 | | 160,423 | 229,597 | 69,762 | | | 62,199 | | 236,721 | | | 160 |
| WESTERN MAINE, | 62 | | 953.7 | | 908 | | 591.1 | | 1,372,175 | 1,692,717 | 116,140 | | | 268,760 | | 42,308 | | | 13,260 |
| EASTERN NEW ENGLAND, | 13 | | 208.4 | | 149 | | 70.5 | | 1,072,175 | 92,717 | 31,140 | | | 13,355 | | 13,355 | | | 2,661 |
| INNER GROUNDS, | 35 | | 26.4 | | 203 | | 76.3 | | 2,071,549 | 3,686,150 | 731,664 | | | 149,010 | | 363,440 | | | 1,154 |
| WEST SIDE SOUTH CHANNEL, | 345 | | 4,328.3 | | 9,264 | | 5,664.0 | | 6,895,767 | 1,999,675 | 312,890 | | | 148,225 | | 315,621 | | | 1,462,942 |
| EAST SIDE SOUTH CHANNEL, | 233 | | 1,038.0 | | 5,926 | | 3,062.5 | | 2,695,402 | 4,355,601 | 2,447,685 | | | 23,720 | | 24,397 | | | 1,612,005 |
| CENTRAL BAY OF GEORGES, | 132 | | 947.8 | | 7,402 | | 5,022.8 | | 1,105,368 | 1,331,628 | 67,000 | | | 65,190 | | 103,246 | | | 332,961 |
| CENTRAL BAY OF GEORGES, | 143 | | 392.1 | | 3,006 | | 2,110.9 | | 1,05,368 | 1,331,628 | 67,000 | | | 65,190 | | 103,246 | | | 277,005 |
| SOUTHWEST GEORGES, | 21 | | 505.9 | | 7,177 | | 4,575.5 | | 295,303 | 2,033,374 | 131,298 | | | 240,711 | | 12,738,900 | | | 6,732,436 |
| MANUQUET SHOALS AND LIGHTSHIP, | 221 | | 1,087.3 | | 3,059 | | 1,680.9 | | 25,163 | 83,555 | 2,920 | | | 20,160 | | 1,045 | | | 7,296,662 |
| OFF NOVAIS LAND, | 154 | | 361.3 | | 398 | | 403.0 | | 14,445 | 14,225 | 50 | | | 1,210 | | 6,476 | | | 5,919,570 |
| OFF NOVAIS LAND, | 77 | | 67.1 | | 253 | | 149.3 | | 161,657 | 15,676,335 | 4,711,519 | | | 1,701,756 | | 2,402,305 | | | 34,195,335 |
| RHODE ISLAND SHORE, | 1/311 | | 25,318.7 | | 59,996 | | 36,640.7 | | 9,161,657 | 15,676,335 | 4,711,519 | | | 915,922 | | 1,701,756 | | | 2,402,305 |
| TOTAL | 1/711 | | 25,318.7 | | 59,996 | | 36,640.7 | | 9,161,657 | 15,676,335 | 4,711,519 | | | 915,922 | | 1,701,756 | | | 2,402,305 |
| OFF ATLANTIC STATES (AREA XXIII): | | | | | | | | | | | | | | | | | | | |
| MIDDLE ATLANTIC STATES (AREA XXIII), | 69 | | 195.3 | | 937 | | 607.1 | | 3,930 | 9,620 | - | | | - | | 35,865 | | | 650 |
| OFF LONG ISLAND, | 1/712 | | 26,041.0 | | 66,796 | | 39,562.9 | | 9,693,798 | 16,975,826 | 4,974,652 | | | 1,137,747 | | 1,967,416 | | | 2,407,670 |
| GRAND TOTAL | 1/712 | | 26,041.0 | | 66,796 | | 39,562.9 | | 9,693,798 | 16,975,826 | 4,974,652 | | | 1,137,747 | | 1,967,416 | | | 2,407,670 |

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTE AT END OF TABLE.

NEW ENGLAND FISHERIES

LANDINGS AT MASSACHUSETTS PORTS
SUMMARY OF FISHERY - BY AREA AND SUBAREA, 1961 - Continued

| AREA AND SUBAREA | FLOUNDER, ROUND - CONTINUED | | HADDOCK, DRINK | | RED, ROUND POUNDS | HAKE | | HALIBUT, GRAB POUNDS | MACKEREL, ROUND POUNDS | MENHADEN, ROUND POUNDS | |
|--|-----------------------------|---------------|-----------------|-----------------|----------------------|-----------------|-----------------------------------|----------------------------|------------------------------|------------------------------|-----------------|
| | BLACK-BACK POUNDS | DAB POUNDS | FLUKE POUNDS | LARGE POUNDS | | SCROD POUNDS | WHITE, DRESSED LARGE POUNDS | | | | SMALL POUNDS |
| | | | | | | | | | | | |
| OFF GRAND BANK (AREA XX): | - | - | - | 68 | 165 | - | - | 5,330 | - | - | |
| SOUTHWEST GRAND BANK: | - | - | - | - | - | - | - | 1,110 | - | - | |
| ST. PIERRE BANK. | - | - | - | - | - | - | - | 9,340 | - | - | |
| TOTAL. | - | - | - | 68 | 165 | - | - | 7,380 | - | - | |
| OFF NOVA SCOTIA (AREA XXI): | - | - | - | - | - | - | - | - | - | - | |
| NORTHEAST CAPE BRETON. | - | 500 | - | 1,391 | 746 | - | 190 | 561 | - | - | |
| NOVA SCOTIA BANK. | - | - | - | 933 | 1,187 | - | 555 | 2,750 | - | - | |
| BANQUEREAU. | - | 1,623 | - | 2,927 | 5,147 | - | 575 | 2,256 | - | - | |
| CANSO. | - | 31,650 | - | 4,450 | 174 | - | - | 270 | - | - | |
| MIDDLE GROUND. | - | 3,300 | - | 3,168 | 3,330 | - | 1,663 | 3,003 | - | - | |
| CASHING GROUND. | - | 213 | - | 3,330 | 2,993 | - | 2,893 | 658 | - | - | |
| EASTERN NOVA SCOTIA. | - | 210 | - | 1,219 | 1,190 | - | 1,190 | 603 | - | - | |
| EMERALD BANK. | - | 110 | - | 400 | 725 | - | 725 | 2,913 | - | - | |
| CENTRAL NOVA SCOTIA. | - | 1,825 | - | 6,721 | 19,680 | - | 3,025 | 6,508 | - | - | |
| EAST BROWNS AND LA HAVE. | 1,600 | 34,140 | 500 | 2,979,245 | 4,315,327 | 53,900 | 38,006 | 27,419 | 10 | - | |
| WEST BROWNS. | 300 | 15,126 | - | 4,959,776 | 19,177 | - | 19,177 | 4,164 | - | - | |
| WESTERN BROWNS. | 3,300 | 13,654 | - | 4,150,014 | 15,014 | - | 15,014 | 17,000 | - | - | |
| WESTERN NOVA SCOTIA. | 3,303 | 11,910 | - | 13,660 | 49,450 | - | 13,665 | 51,699 | - | - | |
| SOUTHERN BAY OF FUNDY. | - | 1,125 | - | 35,300 | 34,450 | - | 34,450 | 98 | - | - | |
| NORTHERN BAY OF FUNDY. | 1,238 | 3,763 | - | 281,348 | 339,438 | - | 56,310 | 1,993 | - | - | |
| TOTAL. | 7,461 | 130,924 | 500 | 7,561,742 | 10,160,341 | 53,900 | 196,791 | 21,681 | 100 | - | |
| NEW ENGLAND (AREA XXII): | - | - | - | - | - | - | - | - | - | - | |
| EASTERN MAINE. | 530 | 2,630 | - | 48,025 | 53,390 | - | 35,590 | 4,600 | - | - | |
| CENTRAL MAINE. | 172,910 | 310 | 440 | 1,056,614 | 1,750 | - | 6,740 | 765 | - | - | |
| EASTERN MASSACHUSETTS. | 5,551 | 672,974 | 20,957 | 2,269,165 | 928,448 | 40,995 | 108,617 | 4,707 | - | - | |
| INNER GROUNDS. | 2,163,529 | 629,325 | 99,908 | 7,011,757 | 2,269,165 | 3,966,335 | 62,105 | 17,393 | - | - | |
| WEST SIDE SOUTH CHANNEL. | 2,683,920 | 372,959 | 99,908 | 10,040,767 | 2,066,430 | 2,066,430 | 443,305 | 21,438 | - | - | |
| EAST SIDE SOUTH CHANNEL. | 456,432 | 1,047,642 | 4,350 | 10,960,245 | 8,123,247 | 940,165 | 262,191 | 36,008 | 584,153 | 31,029 | |
| SOUTH SIDE SOUTH CHANNEL. | 523,003 | 1,574,634 | 1,140 | 3,586,333 | 15,265,916 | 1,000 | 32,190 | 44,659 | 100 | - | |
| CENTRAL AND SOUTHEAST. | 923,603 | 1,753,603 | 6,140 | 2,144,301 | 1,645,236 | 1,000 | 12,550 | 15,692 | - | - | |
| SOUTHWEST GEORGES. | 105,778 | 30,143 | 133,673 | 2,144,301 | 1,645,236 | - | 2,400 | 2,768 | - | - | |
| NANTUCKET SHOALS AND LIGHTSHIP. | 3,678,265 | 12,961 | 1,878,634 | 966,747 | 1,780,759 | 250 | 2,400 | 1,515 | - | - | |
| SOFT NO MAN'S LAND. | 725,516 | 255 | 937,837 | 7,060 | 6,170 | 55,000 | 8,225 | 58 | - | - | |
| OFF LONG ISLAND. | 64,400 | 360 | 524,054 | 2,795 | 1,415 | - | 330 | 1,500 | - | - | |
| RHODE ISLAND SHORE. | 25,940 | - | 452 | - | 355 | - | - | - | 525 | - | |
| TOTAL. | 11,693,987 | 27,660,984 | 3,607,623 | 41,663,591 | 55,004,115 | 7,092,175 | 1,132,313 | 106,666 | 1,099,641 | 3,326,639 | |
| MIDDLE ATLANTIC STATES (AREA XXIII), OFF LONG ISLAND. | 21,922 | - | 1,601,817 | 1,600 | 665 | - | - | - | - | - | |
| GRAND TOTAL. | 11,923,370 | 27,991,968 | 5,210,140 | 49,227,221 | 65,165,306 | 7,146,075 | 1,329,104 | 165,064 | 1,609,941 | 3,362,639 | |

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTE AT END OF TABLE.

LANDINGS AT MASSACHUSETTS PORTS
SUMMARY OF FISHERY - BY AREA AND SUBAREA, 1961 - Continued

| AREA AND SUBAREA | OCEAN PERCH, ROUND | POLLOCK, DRAWN | SCUP OR POGNY, ROUND | SWORD- FISH, DRESSED | WHITING | | WOLF- FISH, DRAWN | SCALLOPS, SEA (MEATS) | OTHER, AS LANDED | TOTAL, AS LANDED | | | | |
|--|--------------------------|-------------------|----------------------------|----------------------------|-----------|-----------|-------------------------|-----------------------------|------------------------|------------------------|--------|--------|--------|--------|
| | | | | | POUNDS | POUNDS | | | | | POUNDS | POUNDS | POUNDS | POUNDS |
| | | | | | | | | | | | | | | |
| GULF OF ST. LAWRENCE (AREA XIX), EAST GULF ST. LAWRENCE | 117,700 | - | - | - | - | - | - | - | - | 117,700 | | | | |
| OFF GRAND BANK (AREA XX): | 85,000 | - | - | - | - | 263 | - | 162 | - | 85,000 | | | | |
| NORTHWEST GRAND BANK | 3,153,640 | 768 | - | - | - | - | - | 330,468 | - | 3,153,640 | | | | |
| ST. PIERRE BANK | 3,329,690 | - | - | - | - | - | - | - | - | 3,329,690 | | | | |
| TOTAL | 3,579,330 | 768 | - | - | - | 263 | - | 324 | - | 3,579,330 | | | | |
| OFF NOVA SCOTIA (AREA XXI): | 5,413,779 | 1,833 | - | - | - | 64 | - | 324 | - | 5,413,779 | | | | |
| NORTHEAST CAPE BRETON | 997,000 | 1,135 | - | 230 | - | - | - | - | - | 997,000 | | | | |
| MI SAINE BANK | 3,795,506 | 17,950 | - | - | - | 227 | - | - | - | 3,795,506 | | | | |
| BANQUEREAU | 5,267,909 | 10,036 | - | - | - | 16 | - | - | - | 5,267,909 | | | | |
| CANISO | 3,559,467 | 87,432 | - | - | - | 332 | - | 81 | - | 3,559,467 | | | | |
| HORSESHOE GROUND | 13,970 | 13,970 | - | - | - | 317 | - | - | - | 13,970 | | | | |
| EASTERN NOVA SCOTIA | 741,435 | 6,510 | - | - | - | - | - | - | - | 741,435 | | | | |
| EMERALD BANK | 9,520,843 | 1,016,850 | - | - | - | 513 | - | 9,794,617 | - | 9,520,843 | | | | |
| EAST SCOTIA | 1,120,663 | 1,546,996 | - | - | - | 230 | - | 57,664 | - | 1,120,663 | | | | |
| SOUTH BRUNSWICK | 59,410 | 1,920,217 | - | - | - | 100 | - | 8,691,918 | - | 59,410 | | | | |
| SOUTHERN NOVA SCOTIA | 351,360 | 6,760 | - | - | - | 220 | - | 498 | - | 351,360 | | | | |
| WESTERN NOVA SCOTIA | 3,400 | 10,107 | - | - | - | 63 | - | 100 | - | 3,400 | | | | |
| NORTH BRUNSWICK | 37,820 | 163,827 | - | - | - | 300 | - | 6,000 | - | 37,820 | | | | |
| NORTHERN BAY OF FUNDY | 41,310,423 | 3,840,110 | - | 230 | - | 1,620 | - | 203,375 | - | 41,310,423 | | | | |
| TOTAL | 152,050 | 9,900 | - | - | - | 815 | - | 353,290 | - | 152,050 | | | | |
| NEW ENGLAND (AREA XXI I): | 1,637,102 | 7,440 | - | - | - | 4,313 | - | 420,560 | - | 1,637,102 | | | | |
| WESTERN MAINE | 6,996,660 | 5,100,041 | 7,665 | - | - | 3,487,269 | - | 46,985 | - | 6,996,660 | | | | |
| EASTERN MASSACHUSETTS | 1,604,262 | 1,855,678 | 10,307 | - | - | 114,505 | - | 1,251,366 | - | 1,604,262 | | | | |
| INNER GROUNDS | 1,705,203 | 2,052,203 | 400 | - | - | 574,035 | - | 4,420 | - | 1,705,203 | | | | |
| WEST SIDE SOUTH CHANNEL | 1,420,179 | 2,400,179 | - | - | - | 81,000 | - | 34,403 | - | 1,420,179 | | | | |
| NORTHERN EDGE OF GEORGES | 2,400 | 102,240 | - | - | - | 1,200 | - | 2,934 | - | 2,400 | | | | |
| CENTRAL AND SOUTHEAST GEORGES | 2,400 | 9,090 | - | - | - | 250 | - | 619,662 | - | 2,400 | | | | |
| SOUTHWEST GEORGES | - | 46 | - | - | - | - | - | 10,989,626 | - | 46 | | | | |
| OFF NOVA SCOTIA AND LIGHTSHIP | - | 5 | - | - | - | - | - | 66,636 | - | 5 | | | | |
| SOUTHERN MASSACHUSETTS | - | 5 | - | - | - | - | - | 2,093,306 | - | 5 | | | | |
| RHODE ISLAND SHORE | 9,708,169 | 12,197,286 | 1,016,147 | 468,225 | 3,664,572 | 360,781 | 21,020,135 | 45,793,194 | 399,365,026 | 9,708,169 | | | | |
| TOTAL | - | 615 | 18,260 | - | - | - | 14,092 | 16,730 | - | - | | | | |
| MIDDLE ATLANTIC STATES (AREA XXI II), OFF LONG ISLAND | 54,712,622 | 15,036,609 | 1,034,407 | 466,455 | 3,666,717 | 493,219 | 21,034,227 | 45,636,332 | 431,643,662 | 54,712,622 | | | | |
| GRAND TOTAL | 117,700 | 11,833 | 18,260 | 466,455 | 3,666,717 | 493,219 | 21,034,227 | 45,636,332 | 431,643,662 | 117,700 | | | | |

1/ EXCLUSIVE OF DUPLICATION.
SEE NOTE ON PAGE 152.

SECTION 3 - MIDDLE ATLANTIC FISHERIES

The 1961 commercial landings of fish and shellfish in the coastal areas of the Middle Atlantic States (New York, New Jersey, and Delaware) amounted to 825 million pounds valued at \$24 million to the fishermen. Compared with the previous year, this was an increase of 42 million pounds (5 percent) and \$2 million (10 percent). The gain in volume was due to increased landings of menhaden while menhaden and oysters accounted for the higher value.

A comparison of landings by States shows that New Jersey led with 48 percent of the total volume for the Middle Atlantic States. Delaware was second, with 37 percent, while New York accounted for the remaining 15 percent. The ranking by value of landings was: New Jersey, 46 percent, New York, 38, and Delaware, 16 percent.

During the year, 8,559 fishermen participated in making the catch. These fishermen utilized 602 vessels and 4,123 other craft--a decrease of 19 vessels, but an increase of 227 fishermen compared with 1960. The additional fishermen were employed in the shore and boat fishery.

Manufactured fishery products were valued at \$92 million--\$11 million more than the 1960 production. In terms of value, this was a record year, due primarily to an increase in the production of menhaden products, breaded products, and canned fishery items.

Increased landings of oysters were recorded for the first time since 1950. In that year, 18.2 million pounds of meats were landed in the Middle Atlantic States. Since then, declines have been registered each year, until 1961, when landings totaled 1.9 million pounds of meats, or an increase of 66 percent over 1960. Among the many factors that contributed to the decline were poor sets, starfish depredation in Long Island Sound, a general shortage of seed oysters; and, beginning in 1957, a severe blight of Delaware Bay oysters from an organism commonly referred to as MSX. The Delaware Bay seed oyster beds, which were legally closed in 1959 as a protective measure, were reopened in 1961. Bay plantings prospered, and there was optimism that MSX may have run its course. The catch of 1 million pounds from the Bay was a direct result of renewed seed plantings.

The production of surf clams in the Middle Atlantic States (27.4 million pounds of meats) increased 2.8 million pounds and set a record for the third consecutive year. New Jersey vessels accounted for 97 percent of the landings, and the new record is attributed to the addition of four vessels to the surf clam fleet. This is an example of a fishery which has been completely market-controlled as supply problems have not yet arisen. Because market acceptance increases each year, greater demands will be made of the fishing grounds, and studies are now being considered to determine the catch potential.

While the overall production of hard clams declined only about 5 percent, the catch in New Jersey was adversely affected by the occurrence of hepatitis among the local population. Early in the season, an outbreak of infectious hepatitis was linked to clams as a possible source of infection. Several important producing areas of New Jersey were closed by the shellfish sanitation agency, and market acceptance of clams from adjoining areas was limited. The New Jersey clam production fell 34 percent as a result of these factors. New York clams weathered the hepatitis scare and by year's end, production was up 10 percent.

Landings of hard crabs decreased 2 million pounds to the lowest level since 1945. Crabs were small in size, and the price was very low. Pot fishermen had to delay the season until crabs reached a marketable size, and the dredgers who operated during the winter months found fishing unprofitable and ceased operations within a week or two.

During the year, a small dehydration plant was set up to produce meal from horseshoe crabs, which were gathered by hand along the beaches where they were found in large numbers after storms. This supplied work for some unemployed oystermen. Unfortunately, the operation had little more than started when the plant was destroyed by fire. However, enough crabs were harvested to nearly double the 1960 landings of this species.

Menhaden accounted for 87 percent of the total volume and 33 percent of the value of Middle Atlantic landings in 1961. Although clam meats were only 4 percent of the volume of the landings, they were 22 percent of the value.

Sea bass production declined nearly 1 million pounds (34 percent) to the lowest level recorded since 1921. This fishery has been on the downgrade in recent years presumably because of a failure of year-classes.

Striped bass were abundant in all areas. New York, the best producing State of the Middle Atlantic, had the highest commercial catch (910,000 pounds) ever recorded for the State. The fish were mostly of a single year-class which entered the fishery during the year. Haul seines took the greatest quantities, but inshore trawlers also caught an unusual number.

A sharp increase in the catch of yellowtail flounders was primarily attributed to the expansion of processing and landing facilities on Long Island. These facilities are within a short distance of the most important fishing grounds for this species.

Cod landings dropped considerably due to the freezing over of New Jersey harbors for a period of 2 weeks during the peak of the season. Also, the fish were less abundant and found in areas farther offshore than the previous year, thus limiting the line trawlers' fishing time.

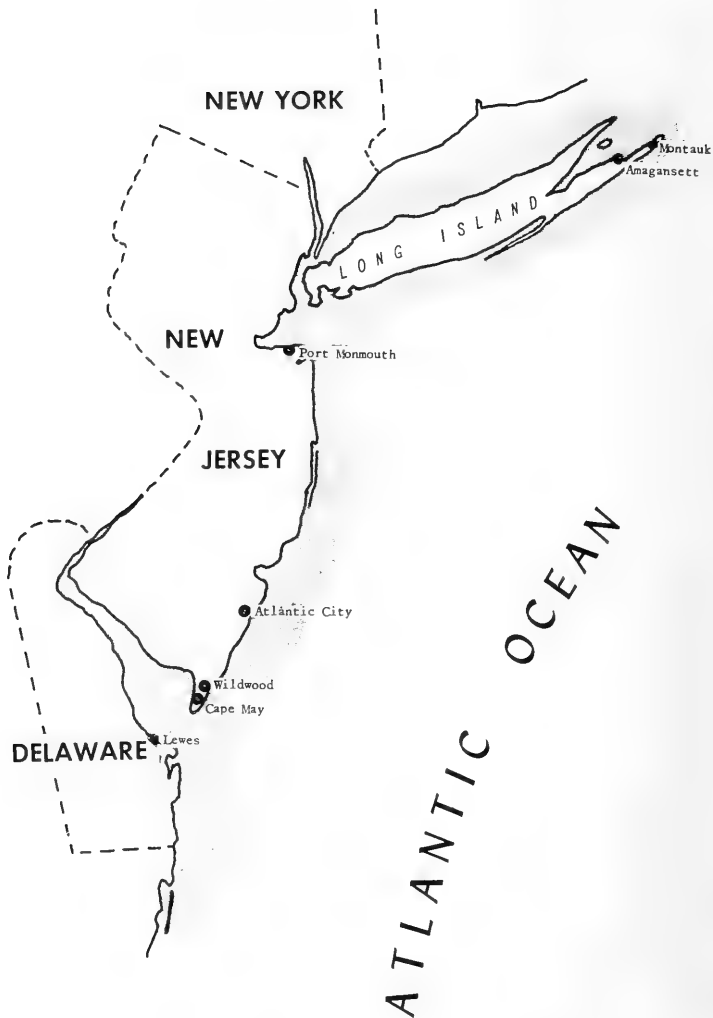
The world fish meal market became more stable in 1961, and prices edged upward. This brought the return of normal fishing effort to the industry and was responsible for a 44-million-pound increase in landings of menhaden over 1960.

An act of the New York legislature provided for the appointment of an Assistant Director of the Fish and Game Department in charge of marine fisheries, and directs that a Marine Fisheries Advisory Committee be formed. The bill is to provide the framework within which stronger State fisheries programs can be developed.

The Bureau acknowledges the assistance of the following organizations in the collection of the data appearing in this section: The New York Conservation Department; the Division of Fish and Game and the Division of Shell Fisheries of the New Jersey Department of Conservation and Economic Development; and the University of Delaware Marine Research Laboratory and the Delaware Commission of Shell Fisheries.

Condensed summary data of the operating units and catch by States in the Middle Atlantic area appearing on the following pages have been previously published in Current Fishery Statistics bulletin No. 2987. Seasonal variation in the catch of fish and shellfish in the New York Marine District, and in New Jersey, can be ascertained from monthly and annual landing bulletins issued for these States in cooperation with the fishing agency of each State. Additional data on many aspects of the Middle Atlantic fisheries may be found in daily, monthly, and annual reports published by the Bureau's Fishery Market News Service, 155 John Street, New York 38, New York.

MIDDLE ATLANTIC FISHERIES



MIDDLE ATLANTIC STATES

MIDDLE ATLANTIC FISHERIES

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SECTIONAL SUMMARIES

SUMMARY OF CATCH, 1961

(MILLIONS OF POUNDS AND MILLIONS OF DOLLARS)

| STATE | FISH | | SHELLFISH, ETC. | | TOTAL | |
|----------------------|----------|-------|-----------------|-------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| NEW YORK | 112 | 3 | 12 | 6 | 124 | 9 |
| NEW JERSEY | 363 | 7 | 34 | 4 | 397 | 11 |
| DELAWARE | 303 | 4 | 1 | (1) | 304 | 4 |
| TOTAL | 778 | 14 | 47 | 10 | 825 | 24 |

1/ LESS THAN \$500,000.

SUMMARY OF OPERATING UNITS, 1961

| ITEM | NEW YORK | NEW JERSEY | DELAWARE | TOTAL, EXCLUSIVE OF DUPLICATION |
|----------------------------------|----------|------------|----------|---------------------------------------|
| | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | |
| ON VESSELS | 992 | 1,853 | 413 | 3,021 |
| ON BOATS AND SHORE: | | | | |
| REGULAR | 956 | 784 | 101 | 1,841 |
| CASUAL | 2,029 | 1,401 | 267 | 3,697 |
| TOTAL | 3,977 | 4,038 | 781 | 8,559 |
| VESSELS, MOTOR | 229 | 376 | 43 | 602 |
| GROSS TONNAGE | 11,174 | 17,514 | 4,685 | 31,159 |
| BOATS: | | | | |
| MOTOR | 1,670 | 1,466 | 340 | 3,676 |
| OTHER | 79 | 331 | 37 | 447 |
| GEAR: | | | | |
| HAUL SEINES, COMMON | 41 | 22 | 6 | 69 |
| LENGTH, YARDS | 11,658 | 2,502 | 2,060 | 16,240 |
| STOP SEINES | - | 5 | - | 5 |
| LENGTH, YARDS | - | 2,400 | - | 2,400 |
| PURSE SEINES: | | | | |
| MENHADEN | 10 | 27 | 21 | 58 |
| LENGTH, YARDS | 4,360 | 10,390 | 7,320 | 22,070 |
| OTHER | - | 18 | - | 18 |
| LENGTH, YARDS | - | 6,710 | - | 6,710 |
| BEAM TRAWLS | - | 9 | - | 9 |
| YARDS AT MOUTH | - | 26 | - | 26 |
| OTTER TRAWLS: | | | | |
| FISH | 155 | 182 | 5 | 317 |
| YARDS AT MOUTH | 3,373 | 4,270 | 113 | 7,149 |
| LOBSTER | - | 41 | - | 41 |
| YARDS AT MOUTH | - | 1,177 | - | 1,177 |
| WEIRS | - | 5 | - | 5 |
| POUND NETS, FISH | 120 | 52 | - | 158 |
| FYKE AND HOOP NETS: | | | | |
| FISH | 117 | 39 | 71 | 227 |
| TURTLE | - | - | 167 | 167 |
| POTS AND TRAPS: | | | | |
| CONCH | 50 | - | - | 50 |
| CRAB | - | 2,070 | 3,510 | 5,580 |
| EEL | 862 | 371 | 125 | 1,358 |
| FISH | 400 | 14,980 | - | 15,380 |
| LOBSTER | 6,590 | 3,973 | - | 10,563 |
| TURTLE | - | 120 | - | 120 |
| GILL NETS: | | | | |
| ANCHOR, SET OR STAKE | 110 | 47 | 30 | 187 |
| SQUARE YARDS | 110,672 | 100,062 | 52,500 | 263,254 |
| DRIFT: | | | | |
| SHAD | 47 | 16 | - | 63 |
| SQUARE YARDS | 126,323 | 26,665 | - | 152,988 |
| OTHER | 7 | 55 | 15 | 75 |
| SQUARE YARDS | 26,427 | 440,006 | 10,600 | 463,633 |
| RUNAROUND | 10 | 20 | - | 30 |
| SQUARE YARDS | 17,700 | 104,300 | - | 122,000 |
| LINES: | | | | |
| HAND | 575 | 91 | - | 666 |
| HOOKS | 800 | 91 | - | 891 |
| TROLL | - | 130 | - | 130 |
| HOOKS | - | 131 | - | 131 |
| LONG OR SET WITH HOOKS | 60 | 107 | 2 | 169 |
| HOOKS | 39,500 | 281,050 | 3,000 | 323,550 |
| TROT WITH BAITS | - | 12 | - | 12 |
| BAITS | - | 5,400 | - | 5,400 |

(CONTINUED ON NEXT PAGE)

MIDDLE ATLANTIC FISHERIES

SUMMARY OF OPERATING UNITS, 1961 - Continued

| ITEM | NEW YORK | NEW JERSEY | DELAWARE | TOTAL, EXCLUSIVE OF DUPLICATION |
|--------------------------|----------|------------|----------|---------------------------------------|
| | NUMBER | NUMBER | NUMBER | NUMBER |
| GEAR - CONTINUED: | | | | |
| PUSH NETS | - | 12 | - | 12 |
| HARPOONS | 6 | 4 | - | 10 |
| SPEARS | 24 | 4 | - | 28 |
| DREDGES: | | | | |
| CLAM | 30 | 65 | 20 | 115 |
| YARDS AT MOUTH | 22 | 80 | 32 | 134 |
| CRAB | 1 | 56 | 7 | 64 |
| YARDS AT MOUTH | 2 | 106 | 14 | 122 |
| OYSTER, COMMON | 31 | 74 | 8 | 113 |
| YARDS AT MOUTH | 44 | 73 | 11 | 128 |
| SCALLOP | 2,094 | 112 | - | 2,186 |
| YARDS AT MOUTH | 2,179 | 178 | - | 2,288 |
| TONGS: | | | | |
| OYSTER | 2 | 164 | - | 166 |
| OTHER | 1,640 | 1,144 | 115 | 2,899 |
| RAKES | 940 | 834 | 158 | 1,932 |
| HOES | - | 50 | - | 50 |
| HOOKS | - | - | 1 | 1 |

CATCH BY STATES, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | NEW YORK | | NEW JERSEY | | DELAWARE | | TOTAL | |
|---------------------------------------|----------|-------|------------|-------|----------|-------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH | | | | | | | | |
| ALEWIVES | 34 | 1 | 17 | 1 | (1) | (1) | 51 | 2 |
| AMBERJACK | - | - | 1 | (1) | - | - | 1 | (1) |
| ANGLERFISH | 17 | 1 | 6 | (1) | - | - | 23 | 1 |
| BLUEFISH | 505 | 105 | 462 | 89 | - | - | 967 | 194 |
| BONITO | 27 | 3 | 41 | 5 | - | - | 68 | 6 |
| BULLHEADS | 1 | (1) | - | - | - | - | 1 | (1) |
| BUTTERFISH | 1,686 | 180 | 2,358 | 157 | 3 | (1) | 4,047 | 337 |
| CARP | 7 | (1) | 233 | 12 | 4 | (1) | 244 | 12 |
| CATFISH | 19 | 2 | 11 | 1 | 1 | (1) | 31 | 3 |
| COD | 1,166 | 104 | 2,405 | 233 | 32 | 3 | 3,603 | 340 |
| CROAKER | - | - | 57 | 15 | - | - | 57 | 15 |
| DRUM, BLACK | - | - | 2 | (1) | (1) | (1) | 2 | (1) |
| EELS: | | | | | | | | |
| COMMON | 213 | 29 | 30 | 6 | 6 | 1 | 249 | 36 |
| CONGER | 4 | (1) | 5 | (1) | - | - | 9 | (1) |
| FLOUNDERS: | | | | | | | | |
| BLACKBACK | 1,695 | 109 | 152 | 10 | 20 | 1 | 1,867 | 120 |
| DAB | (1) | (1) | - | - | - | - | (1) | (1) |
| FLUKE | 2,324 | 459 | 6,031 | 953 | 76 | 11 | 8,431 | 1,423 |
| GRAY SOLE | 7 | 1 | 49 | 3 | - | - | 56 | 4 |
| LEMON SOLE | - | - | 1 | (1) | - | - | 1 | (1) |
| YELLOWTAIL | 2,047 | 153 | 171 | 1 | - | - | 2,218 | 154 |
| TOTAL FLOUNDERS | 6,073 | 722 | 6,404 | 967 | 96 | 12 | 12,573 | 1,701 |
| GRUNTS | - | - | 1 | (1) | - | - | 1 | (1) |
| HADDOCK | 60 | 6 | 1 | (1) | - | - | 61 | 6 |
| HAKE: | | | | | | | | |
| RED | 457 | 13 | 1,062 | 22 | - | - | 1,519 | 35 |
| WHITE | 1 | (1) | 101 | 5 | - | - | 102 | 5 |
| HERRING, SEA | 164 | 2 | 212 | 4 | - | - | 376 | 6 |
| KING WHITING OR "KINGFISH" | 3 | 1 | 21 | 2 | 3 | 1 | 27 | 4 |
| MACKEREL | 79 | 15 | 251 | 39 | - | - | 330 | 54 |
| MENHADEN | 84,068 | 949 | 328,208 | 3,625 | 302,773 | 3,356 | 715,049 | 7,930 |
| MINNOWS | - | - | - | - | 1 | 1 | 1 | 1 |
| MULLET | 6 | (1) | 18 | 4 | 2 | (1) | 20 | 4 |
| POLLOCK | - | - | 1 | (1) | - | - | 1 | (1) |
| SCUP OR PORGY | 12,055 | 874 | 13,687 | 916 | - | - | 25,742 | 1,790 |
| SEA BASS | 313 | 77 | 1,497 | 273 | - | - | 1,810 | 350 |
| SEA ROBIN | 6 | (1) | 3 | (1) | - | - | 9 | 2 |
| SEA TROUT OR WEAKFISH, GRAY | 53 | 10 | 418 | 47 | 134 | 24 | 605 | 81 |
| SHAD | 303 | 46 | 633 | 110 | 90 | 13 | 1,026 | 169 |
| SHARKS: | | | | | | | | |
| GRAYFISH | 64 | 3 | 6 | (1) | - | - | 70 | 3 |
| UNCLASSIFIED | 3 | (1) | 7 | (1) | - | - | 10 | (1) |
| TOTAL SHARKS | 67 | 3 | 13 | (1) | - | - | 80 | 3 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MIDDLE ATLANTIC FISHERIES

161

CATCH BY STATES, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | NEW YORK | | NEW JERSEY | | DELAWARE | | TOTAL | |
|--|----------|-------|------------|--------|-------------------|------------------|----------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH - CONTINUED | | | | | | | | |
| SHEEPSHEAD, SALT-WATER | - | - | (1) | (1) | - | - | (1) | (1) |
| SILVERSIDES | 189 | 20 | - | - | - | - | 189 | 20 |
| SKATES | 31 | 1 | 2 | (1) | - | - | 33 | 1 |
| STRIPED BASS | 910 | 148 | 276 | 49 | 66 | 12 | 1,252 | 209 |
| STURGEON | 9 | 2 | 16 | 3 | - | - | 25 | 5 |
| SUCKERS | 1 | (1) | - | - | - | - | (1) | (1) |
| SUNFISH | (1) | (1) | - | - | - | - | (1) | (1) |
| SWELLFISH | 492 | 17 | 74 | 4 | - | - | 566 | 21 |
| SWORDFISH | 49 | 22 | 23 | 12 | - | - | 72 | 34 |
| TAUTOG | 12 | 1 | 34 | 1 | - | - | 46 | 2 |
| TILEFISH | 102 | 13 | 82 | 6 | - | - | 184 | 19 |
| TOMCOD | 1 | (1) | - | - | - | - | 1 | (1) |
| TUNA: | | | | | | | | |
| BLUEFIN | 12 | 2 | 3 | (1) | - | - | 15 | 2 |
| LITTLE | 1 | (1) | 1 | (1) | - | - | 2 | (1) |
| TOTAL TUNA | 13 | 2 | 4 | (1) | - | - | 17 | 2 |
| WHITE PERCH | | | | | | | | |
| WHITING | 15 | 2 | 74 | 10 | (1) ²⁷ | (1) ² | 116 | 14 |
| YELLOW PERCH | 2,628 | 113 | 3,680 | 122 | - | - | 6,308 | 235 |
| UNCLASSIFIED: | (1) | (1) | - | - | - | - | (1) | (1) |
| FOR FOOD: | 285 | 28 | 20 | 1 | - | - | 305 | 29 |
| BAIT, REDUCTION, AND ANIMAL FOOD | 397 | 4 | 152 | 2 | - | - | 549 | 6 |
| TOTAL FISH | 112,521 | 3,516 | 362,596 | 6,743 | 303,238 | 3,425 | 778,355 | 13,684 |
| SHELLFISH, ETC. | | | | | | | | |
| CRABS: | | | | | | | | |
| BLUE: | | | | | | | | |
| HARD | 1 | (1) | 646 | 67 | 759 | 52 | 1,406 | 119 |
| SOFT AND PEELER | - | - | 57 | 11 | 54 | 15 | 111 | 26 |
| ROCK | - | - | 44 | 2 | - | - | 44 | 2 |
| TOTAL CRABS | 1 | (1) | 747 | 80 | 813 | 67 | 1,561 | 147 |
| HORSESHOE CRABS | | | | | | | | |
| LOBSTERS, NORTHERN | - | - | 1,110 | 8 | - | - | 1,110 | 8 |
| SHRIMP | 502 | 228 | 1,549 | 570 | - | - | 2,051 | 798 |
| | - | - | 6 | 6 | - | - | 6 | 6 |
| CLAMS: | | | | | | | | |
| HARD: | | | | | | | | |
| PUBLIC | 2,786 | 1,619 | 1,666 | 723 | 251 | 108 | 4,703 | 2,450 |
| PRIVATE | 1,505 | 874 | 21 | 9 | 331 | 124 | 1,857 | 1,007 |
| RAZOR | 14 | 3 | - | - | - | - | 14 | 3 |
| SOFT, PUBLIC | 143 | 38 | 21 | 9 | - | - | 164 | 47 |
| SURF | 722 | 65 | 26,697 | 1,693 | - | - | 27,419 | 1,758 |
| TOTAL CLAMS | 5,170 | 2,599 | 28,405 | 2,434 | 582 | 232 | 34,157 | 5,265 |
| CONCHS | | | | | | | | |
| MUSSELS, SEA | 14 | 2 | 210 | 28 | - | - | 224 | 30 |
| | 18 | 2 | - | - | - | - | 18 | 2 |
| OYSTERS, MARKET: | | | | | | | | |
| PUBLIC: | | | | | | | | |
| SPRING | - | - | 8 | 9 | - | - | 8 | 9 |
| FALL | - | - | 5 | 6 | - | - | 5 | 6 |
| PRIVATE: | | | | | | | | |
| SPRING | 309 | 377 | 48 | 50 | 14 | 7 | 371 | 434 |
| FALL | 479 | 692 | 1,039 | 869 | 19 | 11 | 1,537 | 1,572 |
| TOTAL OYSTERS | 788 | 1,069 | 1,100 | 934 | 33 | 18 | 1,921 | 2,021 |
| SCALLOPS: | | | | | | | | |
| BAY | 791 | 555 | 71 | 66 | - | - | 862 | 621 |
| SEA | 3,020 | 1,117 | 348 | 121 | - | - | 3,368 | 1,238 |
| SQUID | 1,186 | 89 | 580 | 38 | - | - | 1,766 | 127 |
| TERRAPIN | - | - | 2 | 1 | - | - | 2 | 1 |
| TURTLES: | | | | | | | | |
| LOGGERHEAD | - | - | 1 | (1) | - | - | 1 | (1) |
| SNAPPER | - | - | 26 | 3 | 14 | 1 | 40 | 4 |
| UNCLASSIFIED | - | - | 1 | (1) | - | - | 1 | (1) |
| TOTAL SHELLFISH, ETC. | 11,490 | 5,661 | 34,156 | 4,289 | 1,442 | 318 | 47,088 | 10,268 |
| GRAND TOTAL | 124,011 | 9,177 | 396,752 | 11,032 | 304,680 | 3,743 | 825,443 | 23,952 |

1/ LESS THAN 500 POUNDS OR \$500.

MIDDLE ATLANTIC FISHERIES

CATCH OF CERTAIN SHELLFISH, 1961

(NUMBER AND BUSHEL)

| SPECIES | NEW YORK | | NEW JERSEY | |
|---------------------------|-----------------------|---------|------------|-----------|
| | QUANTITY | VALUE | QUANTITY | VALUE |
| CRABS: | | | | |
| BLUE: | | | | |
| HARD | NUMBER | \$152 | 1,292,600 | \$67,034 |
| SOFT AND PEELER | DO | - | 195,653 | 11,410 |
| ROCK | DO | - | 132,600 | 1,841 |
| HORSESHOE CRABS | DO | - | 277,500 | 8,326 |
| CLAMS: | | | | |
| HARD: | | | | |
| PUBLIC | U. S. STANDARD BUSHEL | 232,175 | 1,618,944 | 166,620 |
| PRIVATE | DO | 125,383 | 874,310 | 2,130 |
| RAZOR | DO | 856 | 2,690 | - |
| SOFT, PUBLIC | DO | 8,950 | 37,844 | 1,783 |
| SURF | DO | 42,482 | 64,379 | 1,693,177 |
| CONCHS. | DO | 920 | 2,061 | 10,505 |
| MUSSELS, SEA | DO | 1,800 | 2,295 | - |
| OYSTERS, MARKET: | | | | |
| PUBLIC: | | | | |
| SPRING | DO | - | - | 1,250 |
| FALL | DO | - | - | 883 |
| PRIVATE: | | | | |
| SPRING | DO | 41,160 | 376,857 | 7,476 |
| FALL | DO | 63,920 | 691,594 | 135,760 |
| SCALLOPS: | | | | |
| BAY | DO | 131,850 | 554,669 | 9,440 |
| SEA | DO | 503,400 | 1,116,830 | 57,950 |

| SPECIES | DELAWARE | | TOTAL | |
|---------------------------|-----------------------|---------|-----------|-----------|
| | QUANTITY | VALUE | QUANTITY | VALUE |
| CRABS: | | | | |
| BLUE: | | | | |
| HARD | NUMBER | \$1,718 | 3,118,480 | \$118,904 |
| SOFT AND PEELER | DO | 214,800 | 410,653 | 25,844 |
| ROCK | DO | - | 132,600 | 1,841 |
| HORSESHOE CRABS | DO | - | 277,500 | 8,326 |
| CLAMS: | | | | |
| HARD: | | | | |
| PUBLIC | U. S. STANDARD BUSHEL | 31,412 | 107,670 | 430,207 |
| PRIVATE | DO | 41,362 | 124,080 | 168,875 |
| RAZOR | DO | - | - | 856 |
| SOFT, PUBLIC | DO | - | - | 10,733 |
| SURF | DO | - | - | 1,612,906 |
| CONCHS. | DO | - | - | 11,425 |
| MUSSELS, SEA | DO | - | - | 1,800 |
| OYSTERS, MARKET: | | | | |
| PUBLIC: | | | | |
| SPRING | DO | - | - | 1,250 |
| FALL | DO | - | - | 883 |
| PRIVATE: | | | | |
| SPRING | DO | 1,830 | 7,458 | 50,466 |
| FALL | DO | 2,582 | 11,333 | 202,262 |
| SCALLOPS: | | | | |
| BAY | DO | - | - | 141,290 |
| SEA | DO | - | - | 561,350 |

NOTE:--THE CAPACITY OF A U. S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

AVERAGE WEIGHTS OF CERTAIN SHELLFISH, 1961

| SPECIES | NEW YORK | NEW JERSEY | DELAWARE |
|---------------------------|-----------------------|------------|----------|
| | QUANTITY | QUANTITY | QUANTITY |
| CRABS: | | | |
| BLUE: | | | |
| HARD | NUMBER PER POUND | 2.40 | 2.40 |
| SOFT AND PEELER | DO | - | 4.00 |
| ROCK | DO | - | 3.00 |
| HORSESHOE CRABS | POUNDS PER CRAB | - | 4.00 |
| CLAMS: | | | |
| HARD: | | | |
| PUBLIC | U. S. STANDARD BUSHEL | 12.00 | 10.00 |
| PRIVATE | DO | 12.00 | 10.00 |
| RAZOR | DO | 16.00 | - |
| SOFT, PUBLIC | DO | 16.00 | - |
| SURF | DO | 17.00 | 12.00 |
| CONCHS. | DO | 15.00 | 17.00 |
| MUSSELS, SEA | DO | 15.00 | 20.00 |
| OYSTERS, MARKET: | | | |
| PUBLIC: | | | |
| SPRING | DO | - | 6.00 |
| FALL | DO | - | 6.00 |
| PRIVATE: | | | |
| SPRING | DO | 7.50 | 6.42 |
| FALL | DO | 7.50 | 7.66 |
| SCALLOPS: | | | |
| BAY | DO | 6.00 | 7.50 |
| SEA | DO | 6.00 | 6.00 |

NOTE:--THE CAPACITY OF A U. S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

MANUFACTURED FISHERY PRODUCTS, 1961

| ITEM | NEW YORK | | NEW JERSEY | | DELAWARE AND PENNSYLVANIA | |
|--|-------------------|----------------|----------------|---------------------|---------------------------|----------------------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| BUTTERFISH, SMOKED | POUNDS | 307,000 | | (1) | (1) | (1) |
| CARP, SMOKED | DO | 59,900 | | (1) | (1) | (1) |
| CHUBS, SMOKED | DO | 2,876,500 | | (1) | (1) | (1) |
| COO FILLETS, FRESH | DO | 2,408,828 | 623,400 | \$225,430 | (1) | (1) |
| EELS, COMMON, SMOKED | DO | 155,500 | (1) | (1) | (1) | (1) |
| FLOUNDER FILLETS, FRESH AND FROZEN | DO | 3,358,572 | 2,112,099 | 675,580 | 424,903 | 312,300 |
| HADDOCK FILLETS, FRESH | DO | 901,900 | 409,924 | 450,500 | 204,200 | (1) |
| HAKE FILLETS, FRESH | DO | 37,000 | 11,100 | (1) | (1) | (1) |
| HERRING, SEA, CURED: SALTED (INCLUDING BRINED AND SPECIALTY PACKS) | DO | 952,606 | 805,306 | - | - | (1) |
| SMOKED (INCLUDING KIPPERED) | DO | 29,650 | 12,510 | - | - | (1) |
| LAKE TROUT, SMOKED | DO | 42,000 | 34,500 | - | - | (1) |
| MACKEREL FILLETS, SALTED | DO | - | - | - | - | 460,640 |
| PADDLEFISH OR SPOONBILL CAT, SMOKED | DO | 23,000 | 25,200 | (1) | (1) | (1) |
| SABLEFISH, SMOKED | DO | 1,502,500 | 1,133,000 | (1) | (1) | (1) |
| SALMON: SMOKED | DO | 6,113,750 | 9,689,975 | 980,000 | 1,493,750 | (1) |
| KIPPERED | DO | 849,000 | 1,186,300 | - | - | (1) |
| CAVIAR, CANNED | STANDARD CASES | 4,568 | 297,075 | - | - | - |
| SHAD, SMOKED | POUNDS | 19,000 | 8,650 | (1) | (1) | (1) |
| STURGEON, SMOKED | DO | 1,295,800 | 3,371,650 | (1) | (1) | (1) |
| WHITING, SMOKED | DO | 2,022,000 | 1,738,800 | (1) | (1) | (1) |
| WHITING, SMOKED | DO | 167,000 | 89,650 | 125,000 | 52,600 | (1) |
| SHRIMP, FRESH AND FROZEN, PACKAGED: NOT BREADED AND BREADED | DO | 1,589,236 | 1,186,665 | (1) | (1) | (1) |
| COCKTAIL, WITH SAUCE {REFRIGERATED} | DO | 794,494 | 725,270 | (1) | (1) | (1) |
| SPECIALTIES | DO | 64,084 | 48,031 | (1) | (1) | (1) |
| CLAMS, SURF AND HARD, SHUKED (WHOLE AND MINCED) OYSTERS, SHUKED | GALLONS DO | 168,936 (1) | 410,558 (1) | 1,268,552 96,139 | 2,067,181 889,286 | 4,287,181 165,795 |
| SCALLOPS: BAY, SHUKED | DO | 90,415 | 554,669 | 7,866 | 66,494 | (1) |
| SEA, BREADED | POUNDS | 848,760 | 458,004 | (1) | (1) | (1) |
| UNCLASSIFIED PRODUCTS: FRESH AND FROZEN, PACKAGED: FISH AND SHELLFISH: NOT BREADED | DO | 2/330,942 | 2/207,348 | 3/55,250 | 3/28,522 | 4/340,518 |
| BREADED | DO | 5/1,883,211 | 5/764,690 | 6/1,369,595 | 6/1,053,648 | 7/7,096,324 |
| SPECIALTIES | DO | 8/2,029,469 | 8/747,471 | 9/5,831,957 | 9/5,419,295 | 10/3,546,594 |
| CANNED FISH AND SHELL- FISH | STANDARD CASES | 11/262,175 | 11/3,863,265 | 12/1,162,072 | 12/2,218,757 | 13/3,433,566 |
| MISCELLANEOUS | - | - | 14/1,940,266 | - | 15/8,071,028 | 16/7,598,971 |
| TOTAL | - | - | 35,235,543 | - | 32,215,094 | 24,339,712 |

1/ INCLUDED WITH "UNCLASSIFIED PRODUCTS." 2/ INCLUDES FRESH POLLOCK FILLETS AND SHUKED OYSTERS; FROZEN COD AND HADDOCK BUTTERED STEAKS, UNCLASSIFIED FILLETS, PORTIONS, NORTHERN LOBSTER MEAT, BUTTERED SPINY LOBSTER TAILS, CONCH MEAT, AND SQUID. 3/ INCLUDES FRESH HAKE AND POLLOCK FILLETS, FROZEN WHITE PERCH FILLETS, UNCLASSIFIED FILLETS, PORTIONS, AND LOBSTER MEAT. 4/ INCLUDES FRESH COD, HADDOCK, AND SHAD FILLETS; AND PORTIONS 5/ INCLUDES FROZEN BREADED FILLETS, PORTIONS, STICKS, AND OYSTERS. 6/ INCLUDES FROZEN BREADED FILLETS, PORTIONS, STICKS, SOFT SHELL CRABS, SHRIMP, CLAMS, OYSTERS, AND SEA SCALLOPS. 7/ INCLUDES FROZEN BREADED PORTIONS, STICKS, SHRIMP, OYSTERS, AND SEA SCALLOPS. 8/ INCLUDES FROZEN COD CAKES, STUFFED HADDOCK, HADDOCK WITH SAUCE, HALIBUT WITH SAUCE, TUNA AND NOODLES. 9/ INCLUDES FROZEN COD CAKES, STUFFED FLOUNDER, CRAB CAKES, DEVILED CRABS, SHRIMP COCKTAIL, STUFFED SHRIMP, SHRIMP BURGERS AND STEAKS, CLAM CUTLET, DEVILED CLAMS, MUSSELS IN SAUCE, AND SHELLFISH DINNERS AND SOUPS. 10/ INCLUDES FROZEN COD CAKES, FISH DINNERS, CRAB CAKES, DEVILED CRAB, LOBSTER CAKES, SHRIMP COCKTAIL, CLAM STICKS, OYSTER PIE, AND OYSTER STEW. 11/ INCLUDES CANNED ANCHOVY PASTE, SARDINE SPREAD, CAVIAR (LUMPFISH, STURGEON, AND WHITEFISH), GEFILTEFISH, ANIMAL FOOD, WHOLE HARD AND SURF CLAMS, MINCED HARD AND SURF CLAMS, CLAM CHOWDER, CLAM JUICE AND SAUCE, CONCH MEAT, MUSSEL MEAT, AND SQUID. 12/ INCLUDES CANNED COD CAKES, WHITEFISH, FISH APPETIZERS, FISH CHOWDER, GEFILTEFISH, ANIMAL FOOD (INCLUDES THE PACK CONTAINING 10 POUNDS OR MORE OF FISH PER STANDARD CASE), CRAB BISQUE, LOBSTER SOUP AND STEW, SHRIMP SOUP AND STEW, CONCHS, OYSTER BISQUE AND STEW, SCALLOPS IN SAUCE, SQUID, TURTLE SOUP AND MEAT, AND SHELLFISH SOUP. INCLUDES CANNED HARD AND SURF CLAMS, MINCED, CHOWDER, JUICE, BROTH, AND SAUCE. 13/ INCLUDES CANNED TUNA FLAKES, ANIMAL FOOD (EXCLUDES THE PACK CONTAINING LESS THAN 10 POUNDS OF FISH PER STANDARD CASE), CRAB BISQUE, LOBSTER BISQUE, SHRIMP BISQUE, CONCH MEAT, OYSTER STEW, AND TURTLE SOUP. INCLUDES CANNED HARD AND SURF CLAMS WHOLE, MINCED, CHOWDER, AND JUICE AND SAUCE. 14/ INCLUDES THE VALUE OF SALTED COD; AND SMOKED COD, FLOUNDER, HADDOCK (FINNAN HADDIE), AND MACKEREL; MENHADEN MEAT, OIL, AND SOLUBLES; MIXED LIVER OIL, AND MARINE PEARL SHELL BUTTONS. 15/ INCLUDES THE VALUE OF SALTED COD; SMOKED BUTTERFISH, CARP, CHUBS, EELS, SABLEFISH, STURGEON, AND WHITEFISH; MARINE PEARL SHELL BUTTONS, MUSSEL SHELL BUTTONS, OYSTER SHUKED, LOBSTER SOUP AND STEW, SHRIMP SOUP AND STEW, CONCHS, OYSTER BISQUE AND STEW, SCALLOPS IN SAUCE, SQUID, TURTLE SOUP AND MEAT, AND SHELLFISH SOUP. INCLUDES THE VALUE OF SALTED SEA HERRING; SHAD, STURGEON, AND WHITEFISH; MARINE PEARL SHELL BUTTONS, OIL, AND SOLUBLES; MARINE PEARL SHELL BUTTONS, MUSSEL SHELL BUTTONS, OYSTER SHUKED, LOBSTER SOUP AND STEW, SHRIMP SOUP AND STEW, CONCHS, OYSTER BISQUE AND STEW, SCALLOPS IN SAUCE, SQUID, TURTLE SOUP AND MEAT, AND SHELLFISH SOUP. INCLUDES THE VALUE OF SALTED SEA HERRING; SMOKED BUTTERFISH, CARP, CHUBS, EELS, LAKE TROUT; SABLEFISH, SALMON, SEA HERRING, SHAD, STURGEON, AND WHITEFISH; MENHADEN MEAT, OIL, AND SOLUBLES; MARINE PEARL SHELL BUTTONS, OYSTER SHELL POULTRY GRIT, AND UNCLASSIFIED FISH MEAL.

NOTE:---OF THE ABOVE PRODUCTS MAY HAVE BEEN MANUFACTURED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR A FOREIGN COUNTRY; THEREFORE, THEY CANNOT BE CORRELATED DIRECTLY WITH THE CATCH WITHIN THE STATE.

MIDDLE ATLANTIC FISHERIES

SUMMARY OF MANUFACTURED PRODUCTS, 1961

(VALUE IN THOUSANDS OF DOLLARS)

| SUMMARY OF ITEMS | | QUANTITY | VALUE |
|---|------------------|----------|--------|
| PACKAGED, FRESH AND FROZEN: | | | |
| NOT BREADED: | | | |
| FISH FILLETS | 1,000 POUNDS | 9,400 | 4,812 |
| SHELLFISH | DO | 16,245 | 5,783 |
| BREADED: | | | |
| FISH | DO | 12,540 | 6,748 |
| SHELLFISH | DO | 4,875 | 3,934 |
| FISH AND SHELLFISH SPECIALTIES (NOT BREADED AND BREADED) | DO | 14,267 | 10,904 |
| CANNED: | | | |
| FISH AND SHELLFISH | 1,000 STD. CASES | 1,705 | 19,177 |
| ANIMAL FOOD | DO | 141 | 636 |
| CURED FISH: | | | |
| SALTED | 1,000 POUNDS | 1,784 | 1,191 |
| SMOKED AND KIPPERED | DO | 19,218 | 23,909 |
| INDUSTRIAL PRODUCTS | - | - | 14,696 |
| TOTAL | - | - | 91,790 |

VALUE OF MANUFACTURED PRODUCTS, BY STATES, 1961

(THOUSANDS OF DOLLARS)

| STATE | VALUE |
|------------------------|--------|
| NEW YORK | 35,235 |
| NEW JERSEY | 32,215 |
| DELAWARE | 8,913 |
| PENNSYLVANIA | 15,427 |
| TOTAL | 91,790 |

WHOLESALE AND MANUFACTURING, 1961

| ITEM | NEW YORK | NEW JERSEY | PENNSYLVANIA | DELAWARE | TOTAL |
|-----------------------------------|----------|------------|--------------|----------|--------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| WHOLESALE AND MANUFACTURING: | | | | | |
| ESTABLISHMENTS | 311 | 122 | 52 | 21 | 506 |
| PERSONS ENGAGED: | | | | | |
| AVERAGE FOR SEASON | 3,441 | 3,116 | 1,324 | 496 | 8,379 |
| AVERAGE FOR YEAR | 3,211 | 1,892 | 886 | 384 | 6,373 |
| FISHERMEN MANUFACTURING | 250 | - | - | - | 250 |



MIDDLE ATLANTIC FISHERIES

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NEW YORK

OPERATING UNITS BY GEAR, 1961

| ITEM | HAUL SEINES, COMMON | PURSE SEINES, MENHADEN | OTTER TRAWLS, FISH | POUND NETS, FISH | FYKE AND HOOP NETS, FISH | POTS AND TRAPS | |
|--------------------------|------------------------|---------------------------|-----------------------|---------------------|-----------------------------|----------------|--------|
| | | | | | | CONCH | EEL |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | | |
| ON VESSELS | 3 | 170 | 479 | 50 | - | - | - |
| ON BOATS AND SHORE: | | | | | | | |
| REGULAR | 74 | - | 19 | 23 | 8 | - | 10 |
| CASUAL | 34 | - | - | 18 | 20 | 1 | 18 |
| TOTAL | 111 | 170 | 498 | 91 | 28 | 1 | 28 |
| VESSELS, MOTOR | 1 | 10 | 144 | 12 | - | - | - |
| GROSS TONNAGE | 11 | 2,546 | 6,051 | 117 | - | - | - |
| BOATS: | | | | | | | |
| MOTOR | 38 | 30 | 11 | 19 | 22 | 1 | 21 |
| OTHER | 3 | - | - | 10 | - | - | - |
| GEAR: | | | | | | | |
| NUMBER | 41 | 10 | 185 | 120 | 117 | 50 | 862 |
| LENGTH, YARDS | 11,658 | 4,360 | - | - | - | - | - |
| YARDS AT MOUTH | - | - | 3,373 | - | - | - | - |

| ITEM | POTS AND TRAPS - CONTINUED | | | GILL NETS | | |
|--------------------------|----------------------------|---------|----------------------------|-----------|--------|-----------|
| | FISH | LOBSTER | ANCHOR, SET OR STAKE | DRIFT | | RUNAROUND |
| | | | | SHAD | OTHER | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | |
| ON VESSELS | 4 | 16 | - | - | 7 | 2 |
| ON BOATS AND SHORE: | | | | | | |
| REGULAR | - | 28 | 19 | - | 6 | 10 |
| CASUAL | - | 20 | 52 | 94 | 1 | 8 |
| TOTAL | 4 | 64 | 71 | 94 | 14 | 20 |
| VESSELS, MOTOR | 2 | 8 | - | - | 3 | 1 |
| GROSS TONNAGE | 23 | 88 | - | - | 38 | 6 |
| BOATS: | | | | | | |
| MOTOR | - | 25 | 52 | 47 | 4 | 9 |
| OTHER | - | 10 | 2 | - | - | - |
| GEAR: | | | | | | |
| NUMBER | 400 | 6,590 | 110 | 47 | 7 | 10 |
| SQUARE YARDS | - | - | 110,672 | 126,323 | 26,427 | 17,700 |

| ITEM | LINES | | HARPOONS | SPEARS | DREDGES | |
|--------------------------|-------|------------------------------|----------|--------|---------|--------|
| | HAND | LONG OR SET WITH HOOKS | | | CLAM | CRAB |
| | | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | |
| ON VESSELS | - | 10 | 13 | - | 60 | - |
| ON BOATS AND SHORE: | | | | | | |
| REGULAR | 125 | 29 | - | 1 | 5 | - |
| CASUAL | 450 | 15 | - | 23 | - | 2 |
| TOTAL | 575 | 54 | 13 | 24 | 65 | 2 |
| VESSELS, MOTOR | - | 5 | 6 | - | 27 | - |
| GROSS TONNAGE | - | 49 | 103 | - | 567 | - |
| BOATS: | | | | | | |
| MOTOR | 325 | 27 | - | 24 | 2 | 1 |
| OTHER | 25 | 4 | - | - | - | - |
| GEAR: | | | | | | |
| NUMBER | 575 | 60 | 6 | 24 | 30 | 1 |
| HOOKS OR BAITS | 800 | 39,500 | - | - | - | - |
| YARDS AT MOUTH | - | - | - | - | 22 | 2 |

| ITEM | DREDGES - CONTINUED | | TONGS | | RAKES | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|--------------------------|---------------------|---------|--------|--------|--------|--|
| | OYSTER, COMMON | SCALLOP | OYSTER | OTHER | | |
| | | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | |
| ON VESSELS | 57 | 183 | - | - | - | 992 |
| ON BOATS AND SHORE: | | | | | | |
| REGULAR | 3 | 255 | - | 440 | 360 | 956 |
| CASUAL | - | 445 | 2 | 1,200 | 580 | 2,029 |
| TOTAL | 60 | 883 | 2 | 1,640 | 940 | 3,977 |
| VESSELS, MOTOR | 16 | 17 | - | - | - | 229 |
| GROSS TONNAGE | 547 | 1,570 | - | - | - | 11,174 |
| BOATS: | | | | | | |
| MOTOR | 2 | 565 | 2 | 890 | 740 | 1,870 |
| OTHER | - | - | - | 25 | - | 79 |
| GEAR: | | | | | | |
| NUMBER | 31 | 2,094 | 2 | 1,640 | 940 | - |
| YARDS AT MOUTH | 44 | 2,179 | - | - | - | - |

MIDDLE ATLANTIC FISHERIES

NEW YORK - CATCH BY GEAR, 1961

| SPECIES | HAUL SEINES | | PURSE SEINES | | OTTER TRAWLS | |
|--|-------------|---------|--------------|-----------|--------------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | 5,000 | \$215 | - | - | - | - |
| ANGLER FISH | - | - | - | - | 17,000 | \$544 |
| BLUEFISH | 54,600 | 11,363 | - | - | 21,200 | 4,404 |
| BONITO | - | - | - | - | 200 | 22 |
| BUTTERFISH | - | - | - | - | 1,543,800 | 165,307 |
| CARP | 3,400 | 170 | - | - | - | - |
| COD | 100 | 9 | - | - | 615,300 | 73,050 |
| EELS, COMMON | - | - | - | - | 3,800 | 81 |
| FLOUNDERS: | | | | | | |
| BLACKBACK | 800 | 51 | - | - | 1,628,700 | 104,562 |
| DAB | - | - | - | - | 500 | 29 |
| FLUKE | 200 | 39 | - | - | 2,188,200 | 432,064 |
| GRAY SOLE | - | - | - | - | 7,300 | 937 |
| YELLOWTAIL | - | - | - | - | 2,008,600 | 150,443 |
| HADDOCK | - | - | - | - | 59,600 | 6,484 |
| HAKE: | | | | | | |
| RED | - | - | - | - | 453,800 | 12,995 |
| WHITE | - | - | - | - | 900 | 36 |
| HERRING, SEA | - | - | - | - | 6,400 | 67 |
| KING WHITING OR "KINGFISH" | 100 | 15 | - | - | 2,000 | 310 |
| MACKEREL | - | - | - | - | 3,900 | 734 |
| MENHADEN | 5,000 | 50 | 83,080,000 | \$939,523 | - | - |
| POLLOCK | - | - | - | - | 4,700 | 315 |
| SCUP OR PORGY | 436,100 | 31,607 | - | - | 11,097,800 | 604,326 |
| SEA BASS | - | - | - | - | 234,700 | 57,637 |
| SEA ROBIN | - | - | - | - | 100 | 1 |
| SEA TROUT OR WEAKFISH, GRAY | 10,200 | 1,983 | - | - | 24,700 | 4,601 |
| SHAD | 5,800 | 1,003 | - | - | 100 | 18 |
| SHARKS: | | | | | | |
| GRAYFISH | - | - | - | - | 58,400 | 3,063 |
| UNCLASSIFIED | - | - | - | - | 2,400 | 148 |
| SILVERSIDES | 189,900 | 20,075 | - | - | - | - |
| SKATES | - | - | - | - | 30,700 | 1,048 |
| STRIPED BASS | 651,100 | 109,952 | - | - | 133,900 | 22,613 |
| STURGEON | - | - | - | - | 5,500 | 1,131 |
| SWELLFISH | 5,000 | 168 | - | - | 14,800 | 498 |
| SWORDFISH | - | - | - | - | 100 | 44 |
| TAUTOG | 5,500 | 243 | - | - | 3,800 | 168 |
| TILEFISH | - | - | - | - | 99,800 | 12,324 |
| WHITE PERCH | 8,300 | 1,316 | - | - | - | - |
| WHITING | - | - | - | - | 2,564,500 | 110,293 |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | 28,800 | 2,680 | - | - | 181,700 | 18,170 |
| BAIT, REDUCTION, AND ANIMAL FOOD | - | - | - | - | 279,200 | 2,792 |
| LOBSTERS, NORTHERN | - | - | - | - | 245,000 | 85,750 |
| CONCHS | - | - | - | - | 2,800 | 416 |
| SCALLOPS, SEA | - | - | - | - | 4,800 | 1,775 |
| SQUID | - | - | - | - | 1,125,800 | 84,748 |
| TOTAL | 1,408,900 | 181,139 | 83,080,000 | 939,523 | 24,874,500 | 2,164,348 |

| SPECIES | POUND NETS | | FYKE AND HOOP NETS | | POTS AND TRAPS | |
|---------------------------------------|------------|----------|--------------------|---------|----------------|----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | - | - | 27,800 | \$1,118 | - | - |
| BLUEFISH | 179,800 | \$37,420 | - | - | - | - |
| BONITO | 26,900 | 3,428 | - | - | - | - |
| BULLHEADS | - | - | 700 | 70 | - | - |
| BUTTERFISH | 141,700 | 15,173 | - | - | - | - |
| CARP | - | - | 1,900 | 95 | - | - |
| CATFISH | - | - | 8,000 | 821 | - | - |
| EELS, COMMON | 91,500 | 12,742 | 2,000 | 160 | 80,900 | \$10,536 |
| FLOUNDERS: | | | | | | |
| BLACKBACK | 34,400 | 2,208 | 26,200 | 1,682 | - | - |
| FLUKE | 24,800 | 4,896 | - | - | - | - |
| HERRING, SEA | 158,000 | 1,641 | - | - | - | - |
| KING WHITING OR "KINGFISH" | 1,200 | 185 | - | - | - | - |
| MACKEREL | 28,400 | 5,299 | - | - | - | - |
| MENHADEN | 983,000 | 9,830 | - | - | - | - |
| SCUP OR PORGY | 514,800 | 37,311 | - | - | - | - |
| SEA BASS | 1,500 | 370 | - | - | - | - |
| SEA ROBIN | 5,500 | 55 | - | - | 76,500 | 18,848 |
| SEA TROUT OR WEAKFISH, GRAY | 14,700 | 2,859 | - | - | - | - |
| SHAD | 62,100 | 11,613 | - | - | - | - |
| SHARKS, GRAYFISH | 4,600 | 241 | - | - | - | - |
| STRIPED BASS | 9,800 | 1,655 | - | - | - | - |
| STURGEON | 100 | 22 | - | - | - | - |
| SUCKERS | - | - | 1,400 | 234 | - | - |

(CONTINUED ON NEXT PAGE)

MIDDLE ATLANTIC FISHERIES

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NEW YORK - CATCH BY GEAR, 1961 - Continued

| SPECIES | POUND NETS | | FYKE AND HOOP NETS | | POTS AND TRAPS | |
|--|------------|----------|--------------------|-------|----------------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| SUNFISH | - | - | 100 | \$15 | - | - |
| SMELLFISH | 472,400 | \$15,910 | - | - | - | - |
| TAUTOG | 3,200 | 141 | - | - | - | - |
| TOMCOD | - | - | 800 | 240 | - | - |
| TUNA: | | | | | | |
| BLUEFIN | 4,600 | 780 | - | - | - | - |
| LITTLE | 1,200 | 70 | - | - | - | - |
| WHITE PERCH | - | - | 1,400 | 182 | - | - |
| WHITING | 63,300 | 2,722 | - | - | - | - |
| YELLOW PERCH | - | - | 100 | 15 | - | - |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | 55,700 | 5,570 | - | - | - | - |
| BAIT, REDUCTION, AND ANIMAL FOOD | 118,000 | 1,180 | - | - | - | - |
| LOBSTERS, NORTHERN | - | - | - | - | 252,700 | \$140,316 |
| CONCHS | - | - | - | - | 5,300 | 789 |
| SQUID | 27,700 | 2,089 | - | - | - | - |
| TOTAL | 3,026,900' | 175,410 | 70,400' | 4,632 | 415,400 | 170,491' |

| SPECIES | GILL NETS | | | | | |
|---------------------------------------|----------------------|---------|---------|---------|-----------|----------|
| | ANCHOR, SET OR STAKE | | DRIFT | | RUNAROUND | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | 1,000 | \$40 | - | - | - | - |
| BLUEFISH | 36,300 | 7,554 | - | - | 76,400 | \$15,899 |
| CARP | 1,100 | 54 | 700 | \$32 | - | - |
| MACKEREL | - | - | 9,500 | 1,703 | - | - |
| SEA TROUT OR WEAKFISH, GRAY | 900 | 175 | - | - | 3,000 | 587 |
| SHAD | 143,400 | 21,320 | 91,300 | 11,536 | - | - |
| SHARKS, UNCLASSIFIED | 1,000 | 62 | - | - | - | - |
| STRIPED BASS | 72,500 | 7,034 | 8,500 | 854 | 3,200 | 540 |
| STURGEON | 2,800 | 607 | 1,000 | 344 | - | - |
| SUCKERS | 100 | 20 | - | - | - | - |
| WHITE PERCH | 4,900 | 476 | - | - | - | - |
| UNCLASSIFIED, FOR FOOD | 3,900 | 390 | - | - | 4,000 | 400 |
| TOTAL | 267,900' | 37,732' | 111,000 | 14,469' | 86,600 | 17,426 |

| SPECIES | LINES | | | | HARPOONS | |
|----------------------------------|----------|----------|------------------------|--------|----------|----------|
| | HAND | | LONG OR SET WITH HOOKS | | POUNDS | VALUE |
| | POUNDS | VALUE | POUNDS | VALUE | | |
| BLUEFISH | 136,700 | \$28,465 | - | - | - | - |
| CATFISH | - | - | 11,000 | \$940 | - | - |
| COD | 21,000 | 1,882 | 329,200 | 29,496 | - | - |
| EELS, COMMON | - | - | 1,500 | 150 | - | - |
| MACKEREL | 36,800 | 6,867 | - | - | - | - |
| POLLOCK | 1,500 | 100 | - | - | - | - |
| SCUP OR PORGY | 6,300 | 457 | - | - | - | - |
| SHARKS, GRAYFISH | - | - | 1,300 | 68 | - | - |
| STRIPED BASS | 30,700 | 5,185 | - | - | - | - |
| SWORDFISH | - | - | - | - | 48,900 | \$21,466 |
| TUNA, BLUEFIN | 7,200 | 1,234 | - | - | - | - |
| UNCLASSIFIED, FOR FOOD | 10,500 | 1,050 | - | - | - | - |
| TOTAL | 250,700' | 45,240' | 343,000 | 30,654 | 48,900 | 21,466 |

| SPECIES | SPEARS | | DREDGES | | TONGS | | RAKES | |
|------------------------------|--------|---------|-----------|---------|-----------|-----------|-----------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| EELS, COMMON | 37,500 | \$5,225 | - | - | - | - | - | - |
| FLOUNDERS: | | | | | | | | |
| BLACKBACK | - | - | 4,500 | \$269 | - | - | - | - |
| FLUKE | - | - | 110,900 | 21,893 | - | - | - | - |
| YELLOWTAIL | - | - | 38,700 | 2,698 | - | - | - | - |
| HAKE, RED | - | - | 2,900 | 83 | - | - | - | - |
| TILEFISH | - | - | 2,000 | 248 | - | - | - | - |
| CRABS, BLUE, HARD | - | - | 1,300 | 152 | - | - | - | - |
| LOBSTERS, NORTHERN | - | - | 4,300 | 1,505 | - | - | - | - |
| CLAMS: | | | | | | | | |
| HARD: | | | | | | | | |
| PUBLIC | - | - | - | - | 1,417,700 | \$823,820 | 1,368,400 | \$795,124 |
| PRIVATE | - | - | 1,504,600 | 874,310 | - | - | - | - |
| RAZOR | - | - | - | - | - | - | 13,700 | 2,690 |
| SOFT, PUBLIC | - | - | - | - | - | - | 143,200 | 37,844 |
| SURF | - | - | 722,200 | 64,379 | - | - | - | - |

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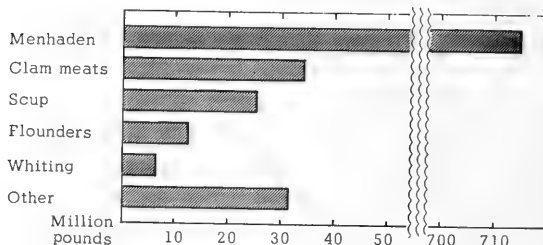
MIDDLE ATLANTIC FISHERIES

NEW YORK - CATCH BY GEAR, 1961 - Continued

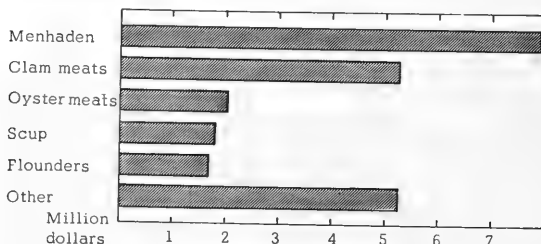
| SPECIES | SPEARS | | DREDGES | | TONGS | | RAKES | |
|---------------------------|--------|---------|-----------|-----------|-----------|---------|-----------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| CONCHS | - | - | 5,700 | \$856 | - | - | - | - |
| MUSSELS, SEA | - | - | 8,400 | 1,071 | 9,000 | \$1,148 | 600 | \$76 |
| OYSTERS, MARKET, PRIVATE: | | | | | | | | |
| SPRING | - | - | 308,700 | 376,857 | - | - | - | - |
| FALL | - | - | 477,500 | 688,844 | 1,900 | 2,750 | - | - |
| SCALLOPS: | | | | | | | | |
| BAY | - | - | 791,100 | 554,669 | - | - | - | - |
| SEA | - | - | 3,015,600 | 1,115,055 | - | - | - | - |
| SQUID | - | - | 34,300 | 2,586 | - | - | - | - |
| TOTAL | 37,500 | \$5,225 | 7,032,700 | 3,705,695 | 1,428,600 | 827,718 | 1,525,900 | 835,734 |



MIDDLE ATLANTIC STATES CATCH, 1961



VALUE OF MIDDLE ATLANTIC STATES CATCH, 1961



MIDDLE ATLANTIC FISHERIES

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NEW JERSEY

OPERATING UNITS BY GEAR, 1961

| ITEM | HAUL SEINES, COMMON | STOP SEINES | PURSE SEINES | |
|--------------------------|------------------------|----------------|--------------|--------|
| | | | MENHADEN | OTHER |
| | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | |
| ON VESSELS | - | - | 449 | 131 |
| ON BOATS AND SHORE: | | | | |
| REGULAR | 13 | 5 | - | 5 |
| CASUAL | 35 | - | - | - |
| TOTAL | 48 | 5 | 449 | 136 |
| VESSELS, MOTOR | - | - | 27 | 17 |
| GROSS TONNAGE | - | - | 5,165 | 308 |
| BOATS: | | | | |
| MOTOR | 19 | 5 | 80 | 1 |
| OTHER | 7 | - | - | 30 |
| GEAR: | | | | |
| NUMBER | 22 | 5 | 27 | 18 |
| LENGTH, YARDS | 2,502 | 2,400 | 10,390 | 6,710 |

| ITEM | BEAM TRAWLS | OTTER TRAWLS | | WEIRS | POUND NETS, FISH | FYKE AND HOOP NETS, FISH |
|--------------------------|----------------|--------------|---------|--------|------------------------|--------------------------------|
| | | FISH | LOBSTER | | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | |
| ON VESSELS | - | 590 | 168 | - | 66 | - |
| ON BOATS AND SHORE: | | | | | | |
| REGULAR | - | 21 | 3 | 3 | 28 | 5 |
| CASUAL | 9 | 6 | - | 2 | 4 | 7 |
| TOTAL | 9 | 617 | 171 | 5 | 96 | 12 |
| VESSELS, MOTOR | - | 169 | 40 | - | 17 | - |
| GROSS TONNAGE | - | 7,230 | 2,196 | - | 149 | - |
| BOATS: | | | | | | |
| MOTOR | 9 | 13 | 1 | 3 | 7 | 4 |
| OTHER | - | - | - | 2 | - | 5 |
| GEAR: | | | | | | |
| NUMBER | 9 | 182 | 41 | 5 | 52 | 39 |
| YARDS AT MOUTH | 26 | 4,270 | 1,177 | - | - | - |

| ITEM | POTS AND TRAPS | | | | |
|--------------------------|----------------|--------|--------|---------|--------|
| | CRAB | EEL | FISH | LOBSTER | TURTLE |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | |
| ON VESSELS | 11 | - | 18 | 16 | - |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | 24 | 5 | 27 | 10 | - |
| CASUAL | - | 11 | - | 2 | 6 |
| TOTAL | 35 | 16 | 45 | 28 | 6 |
| VESSELS, MOTOR | 6 | - | 9 | 8 | - |
| GROSS TONNAGE | 67 | - | 90 | 86 | - |
| BOATS: | | | | | |
| MOTOR | 17 | 13 | 19 | 8 | 6 |
| OTHER | - | 1 | - | - | - |
| GEAR, NUMBER | 2,070 | 371 | 14,980 | 3,973 | 120 |

| ITEM | ANCHOR, SET OR STAKE | GILL NETS | | | LINES | |
|--------------------------|----------------------------|-----------|---------|-----------|--------|--------|
| | | DRIFT | | RUNAROUND | HAND | TROLL |
| | | SHAD | OTHER | | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | |
| ON VESSELS | 8 | - | 76 | 15 | 23 | 33 |
| ON BOATS AND SHORE: | | | | | | |
| REGULAR | 47 | 23 | 36 | 24 | 14 | 28 |
| CASUAL | 45 | 5 | 8 | 3 | 34 | 35 |
| TOTAL | 100 | 28 | 120 | 42 | 71 | 96 |
| VESSELS, MOTOR | 3 | - | 33 | 7 | 9 | 16 |
| GROSS TONNAGE | 44 | - | 472 | 57 | 208 | 214 |
| BOATS: | | | | | | |
| MOTOR | 36 | 16 | 22 | 13 | 34 | 56 |
| OTHER | 6 | - | - | - | - | - |
| GEAR: | | | | | | |
| NUMBER | 47 | 16 | 55 | 20 | 91 | 130 |
| SQUARE YARDS | 100,082 | 26,665 | 440,005 | 104,300 | - | - |
| HOOKS OR BAITS | - | - | - | - | 91 | 131 |

(CONTINUED ON NEXT PAGE)

MIDDLE ATLANTIC FISHERIES

NEW JERSEY - OPERATING UNITS BY GEAR, 1961 - Continued

| ITEM | LINES - CONTINUED | | PUSH NETS | HARPOONS | SPEARS |
|--------------------------|------------------------|-----------------|-----------|----------|--------|
| | LONG OR SET WITH HOOKS | TROT WITH BAITS | | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | |
| ON VESSELS | 130 | - | - | 8 | - |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | 66 | 3 | - | 3 | 1 |
| CASUAL | 21 | - | 12 | 2 | 3 |
| TOTAL | 217 | 3 | 12 | 13 | 4 |
| VESSELS, MOTOR | 57 | - | - | 2 | - |
| GROSS TONNAGE | 624 | - | - | 107 | - |
| BOATS: | | | | | |
| MOTOR | 50 | 3 | - | 2 | 3 |
| OTHER | - | - | 12 | - | 1 |
| GEAR: | | | | | |
| NUMBER | 107 | 12 | 12 | 4 | 4 |
| HOOKS OR BAITS | 281,050 | 5,400 | - | - | - |

| ITEM | DREDGES | | | | TONGS |
|--------------------------|---------|--------|----------------|---------|--------|
| | CLAM | CRAB | OYSTER, COMMON | SCALLOP | OYSTER |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | |
| ON VESSELS | 165 | 35 | 205 | 165 | - |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | 10 | 15 | 15 | 40 | 58 |
| CASUAL | - | - | 9 | - | 142 |
| TOTAL | 175 | 50 | 229 | 205 | 200 |
| VESSELS, MOTOR | 52 | 14 | 28 | 17 | - |
| GROSS TONNAGE | 2,258 | 300 | 667 | 1,255 | - |
| BOATS, MOTOR | 5 | 15 | 10 | 40 | 144 |
| GEAR: | | | | | |
| NUMBER | 65 | 56 | 74 | 112 | 164 |
| YARDS AT MOUTH | 80 | 106 | 73 | 178 | - |

| ITEM | TONGS-CONTINUED | RAKES | HOES | BY HAND | TOTAL, EXCLUSIVE OF DUPLICATION |
|--------------------------|-----------------|--------|--------|---------|---------------------------------|
| | OTHER | | | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | |
| ON VESSELS | - | - | - | - | 1,853 |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | 394 | 275 | 10 | 153 | 784 |
| CASUAL | 750 | 559 | 40 | 454 | 1,401 |
| TOTAL | 1,144 | 834 | 50 | 607 | 4,038 |
| VESSELS, MOTOR | - | - | - | - | 376 |
| GROSS TONNAGE | - | - | - | - | 17,514 |
| BOATS: | | | | | |
| MOTOR | 839 | 614 | 27 | 412 | 1,466 |
| OTHER | 228 | 133 | 4 | 77 | 331 |
| GEAR, NUMBER | 1,144 | 834 | 50 | - | - |



MIDDLE ATLANTIC FISHERIES

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NEW JERSEY - CATCH BY GEAR, 1961

| SPECIES | HAUL SEINES | | STOP SEINES | | PURSE SEINES | |
|---------------------------------------|-------------|---------|-------------|---------|--------------|------------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | 7,600 | \$304 | - | - | - | - |
| BLUEFISH | - | - | - | - | 28,300 | \$3,962 |
| CARP | 102,300 | 5,470 | 130,400 | \$6,073 | - | - |
| CATFISH | 8,100 | 626 | 1,200 | 96 | - | - |
| CROAKER | - | - | - | - | 47,700 | 12,308 |
| FLOUNDERS: | | | | | | |
| BLACKBACK | 600 | 52 | - | - | - | - |
| FLUKE | - | - | - | - | 100 | 16 |
| HERRING, SEA | - | - | - | - | 200 | 2 |
| MENHADEN | - | - | - | - | 310,843,000 | 3,427,053 |
| MULLET | 17,900 | 3,580 | - | - | - | - |
| SCUP OR PORGY | - | - | - | - | 5,087,600 | 405,765 |
| SEA BASS | - | - | - | - | 300 | 50 |
| SEA TROUT OR WEAKFISH, GRAY | - | - | - | - | 16,400 | 1,540 |
| SHAD | 10,000 | 1,961 | - | - | - | - |
| SHARKS, GRAYFISH | - | - | - | - | 300 | 7 |
| SKATES | - | - | - | - | 100 | 2 |
| STRIPED BASS | 19,100 | 4,771 | - | - | 4,900 | 880 |
| STURGEON | - | - | - | - | 100 | 20 |
| TAUTOG | - | - | - | - | 6,500 | 269 |
| WHITE PERCH | 38,400 | 5,033 | - | - | - | - |
| UNCLASSIFIED, FOR FOOD | 100 | 6 | - | - | 100 | 7 |
| CRABS, BLUE, HARD | 4,100 | 406 | - | - | - | - |
| TURTLES, SNAPPER | 700 | 70 | - | - | - | - |
| TOTAL | 208,900' | 22,279' | 131,600' | 6,169' | 316,035,600' | 3,851,881' |

| SPECIES | BEAM TRAWLS | | OTTER TRAWLS | | WEIRS | |
|--|-------------|---------|--------------|------------|----------|--------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | - | - | - | - | 1,000 | \$40 |
| ANGLERFISH | - | - | 6,400 | \$102 | - | - |
| BLUEFISH | - | - | 69,000 | 12,011 | - | - |
| BONITO | - | - | 400 | 69 | - | - |
| BUTTERFISH | - | - | 2,301,700 | 153,461 | - | - |
| COD | - | - | 319,100 | 25,871 | - | - |
| CROAKER | - | - | 5,000 | 1,177 | - | - |
| EELS: | | | | | | |
| COMMON | - | - | - | - | 2,300 | 874 |
| CONGER | - | - | 4,600 | 124 | - | - |
| FLOUNDERS: | | | | | | |
| BLACKBACK | - | - | 112,400 | 5,841 | - | - |
| FLUKE | - | - | 5,996,600 | 948,656 | - | - |
| GRAY SOLE | - | - | 48,800 | 3,167 | - | - |
| LEMON SOLE | - | - | 600 | 102 | - | - |
| YELLOWTAIL | - | - | 169,800 | 1,043 | - | - |
| HADDOCK | - | - | 1,100 | 61 | - | - |
| HAKE: | | | | | | |
| RED | - | - | 1,029,500 | 21,728 | - | - |
| WHITE | - | - | 100,000 | 4,882 | - | - |
| HERRING, SEA | - | - | 69,400 | 1,156 | - | - |
| KING WHITING, OR "KINGFISH". | - | - | 19,400 | 1,833 | - | - |
| MACKEREL | - | - | 3,200 | 516 | - | - |
| POLLOCK | - | - | 1,400 | 83 | - | - |
| SCUP OR PORGY | - | - | 8,494,100 | 501,852 | - | - |
| SEA BASS | - | - | 665,300 | 100,437 | - | - |
| SEA TROUT OR WEAKFISH, GRAY | - | - | 349,800 | 38,711 | - | - |
| SHAD | - | - | 1,000 | 70 | 400 | 80 |
| SHARKS: | | | | | | |
| GRAYFISH | - | - | 2,400 | 60 | - | - |
| UNCLASSIFIED | - | - | 2,800 | 104 | - | - |
| SKATES | - | - | 300 | 5 | - | - |
| STRIPED BASS | - | - | 188,100 | 31,237 | - | - |
| STURGEON | - | - | 12,200 | 2,393 | - | - |
| SWELLFISH | - | - | 43,300 | 2,234 | - | - |
| TAUTOG | - | - | 4,100 | 148 | - | - |
| TILEFISH | - | - | 82,000 | 5,760 | - | - |
| WHITE PERCH | - | - | 6,400 | 1,204 | - | - |
| WHITING | - | - | 3,545,000 | 118,512 | - | - |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | - | - | 13,000 | 700 | - | - |
| BAIT, REDUCTION, AND ANIMAL FOOD | - | - | 151,800 | 2,222 | - | - |
| CRABS: | | | | | | |
| BLUE, HARD | - | - | 900 | 65 | 2,000 | 200 |
| ROCK | - | - | 42,800 | 1,734 | - | - |
| HORSESHOE CRABS | - | - | - | - | 610,000 | 4,576 |
| LOBSTERS, NORTHERN | - | - | 1,362,600 | 470,516 | - | - |
| SHRIMP | 4,300 | \$4,300 | - | - | - | - |
| CONCHS | - | - | 123,300 | 14,920 | - | - |
| SCALLOPS, SEA | - | - | 5,000 | 2,020 | - | - |
| SQUID | - | - | 578,900 | 38,186 | - | - |
| TOTAL | 4,300' | 4,300' | 25,934,000' | 2,511,973' | 615,700' | 5,770' |

(CONTINUED ON NEXT PAGE)

MIDDLE ATLANTIC FISHERIES

NEW JERSEY - CATCH BY GEAR, 1961 - Continued

| SPECIES | POUND NETS | | FYKE AND HOOP NETS | | POTS AND TRAPS | |
|---------------------------------------|-------------|----------|--------------------|---------|----------------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | - | - | 7,900 | \$316 | - | - |
| AMBERJACK | 1,000 | \$47 | - | - | - | - |
| BLUEFISH | 95,500 | 18,266 | - | - | - | - |
| BONITO | 11,000 | 1,736 | - | - | - | - |
| BUTTERFISH | 56,000 | 3,014 | - | - | - | - |
| COD | - | - | - | - | 600 | \$41 |
| CROAKER | 2,800 | 685 | - | - | - | - |
| DRUM, BLACK | 1,200 | 97 | - | - | - | - |
| EELS: | | | | | | |
| COMMON | 500 | 83 | - | - | 26,500 | 4,689 |
| CONGER | - | - | - | - | 100 | 2 |
| FLOUNDERS: | | | | | | |
| BLACKBACK | - | - | 38,400 | 3,840 | - | - |
| FLUKE | 30,200 | 3,819 | - | - | - | - |
| GRUNTS | - | - | - | - | 800 | 29 |
| HAKE, RED | 18,900 | 319 | - | - | 12,600 | 292 |
| HERRING, SEA | 141,800 | 2,711 | - | - | - | - |
| KING WHITING OR "KINGFISH" | 1,600 | 160 | - | - | - | - |
| MACKEREL | 6,400 | 1,095 | - | - | - | - |
| MENHADEN | 16,971,000 | 186,882 | - | - | - | - |
| SCUP OR PORGY | 103,400 | 7,637 | - | - | - | - |
| SEA BASS | - | 103 | - | - | 828,200 | 172,416 |
| SEA ROBIN | 2,600 | 39 | - | - | - | - |
| SEA TROUT OR WEAKFISH, GRAY | 24,500 | 4,219 | - | - | - | - |
| SHAD | 89,700 | 12,275 | - | - | - | - |
| SHARKS, GRAYFISH | 1,700 | 46 | - | - | - | - |
| SHEEPSHEAD, SALT-WATER | 200 | 10 | - | - | - | - |
| SKATES | 1,800 | 36 | - | - | - | - |
| STRIPED BASS | 1,300 | 233 | 15,000 | 3,300 | - | - |
| STURGEON | 3,500 | 850 | - | - | - | - |
| SWELLFISH | 30,600 | 1,690 | - | - | - | - |
| TAUTOG | 3,300 | 115 | - | - | 19,100 | 557 |
| TUNA, LITTLE | 1,000 | 52 | - | - | - | - |
| WHITE PERCH | - | - | 21,800 | 2,798 | - | - |
| WHITING | 115,100 | 2,735 | - | - | - | - |
| UNCLASSIFIED, FOR FOOD | 1,200 | 78 | - | - | 4,300 | 147 |
| CRABS: | | | | | | |
| BLUE: | | | | | | |
| HARD | 700 | 70 | - | - | 459,100 | 44,993 |
| SOFT AND PEELER | - | - | - | - | 57,100 | 11,416 |
| ROCK | - | - | - | - | 1,400 | 107 |
| LOBSTERS, NORTHERN | - | - | - | - | 186,400 | 99,120 |
| CONCHS | - | - | - | - | 300 | 35 |
| SQUID | 1,200 | 105 | - | - | - | - |
| TURTLES: | | | | | | |
| LOGGERHEAD | 800 | 81 | - | - | - | - |
| SNAPPER | - | - | - | - | 18,000 | 2,160 |
| TOTAL | 17,721,100' | 249,290' | 83,100' | 10,254' | 1,614,500 | 336,204 |

| SPECIES | GILL NETS | | | | | |
|--|----------------------|---------|---------|----------|-----------|----------|
| | ANCHOR, SET OR STAKE | | DRIFT | | RUNAROUND | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BLUEFISH | - | - | 77,200 | \$20,130 | 152,400 | \$27,310 |
| BONITO | - | - | 10,900 | 1,159 | 14,800 | 1,398 |
| BUTTERFISH | - | - | 700 | 74 | - | - |
| CATFISH | - | - | 2,000 | 160 | - | - |
| CROAKER | - | - | - | - | 1,400 | 363 |
| DRUM, BLACK | 300 | \$21 | - | - | - | - |
| FLOUNDERS: | | | | | | |
| BLACKBACK | 400 | 24 | - | - | - | - |
| FLUKE | 100 | 13 | - | - | - | - |
| HERRING, SEA | - | - | 800 | 15 | - | - |
| KING WHITING OR "KINGFISH" | - | - | 200 | 23 | - | - |
| MACKEREL | - | - | 236,000 | 35,849 | - | - |
| MENHADEN | - | - | 394,000 | 11,524 | - | - |
| SCUP OR PORGY | - | - | - | - | 1,900 | 206 |
| SEA TROUT OR WEAKFISH, GRAY | 700 | 166 | 17,400 | 3,317 | 9,700 | 1,994 |
| SHAD | 501,000 | 90,139 | 31,000 | 5,521 | - | - |
| SHARKS: | | | | | | |
| GRAYFISH | - | - | 1,700 | 83 | - | - |
| UNCLASSIFIED | - | - | 3,000 | 85 | 700 | 19 |
| STRIPED BASS | 11,500 | 1,989 | 3,300 | 697 | - | - |
| TAUTOG | - | - | - | - | 300 | 16 |
| WHITE PERCH | 1,400 | 98 | 5,800 | 803 | - | - |
| WHITING | - | - | 19,200 | 575 | - | - |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | 100 | 5 | 1,100 | 46 | 100 | 10 |
| BAIT, REDUCTION, AND ANIMAL FOOD | - | - | 200 | 4 | - | - |
| TOTAL | 515,500' | 92,455' | 804,500 | 80,065 | 181,300' | 31,316 |

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MIDDLE ATLANTIC FISHERIES

173

NEW JERSEY - CATCH BY GEAR, 1961 - Continued

| SPECIES | LINES | | | | | | | |
|---------------------------------------|--------|---------|--------|---------|------------------------|-----------|-----------------|---------|
| | HAND | | TROLL | | LONG OR SET WITH HOOKS | | TROT WITH BAITS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BLUEFISH | 8,800 | \$1,538 | 30,400 | \$5,593 | - | - | - | - |
| BONITO | 200 | 46 | 3,300 | 428 | - | - | - | - |
| COD | 4,900 | 456 | 400 | 27 | 2,080,100 | \$206,601 | - | - |
| DRUM, BLACK | 100 | 9 | - | - | - | - | - | - |
| FLOUNDERS, FLUKE | 600 | 78 | - | - | - | - | - | - |
| HAKE, RED | 100 | 2 | - | - | 700 | 22 | - | - |
| KING WHITING OR "KINGFISH" | 200 | 23 | - | - | - | - | - | - |
| HACKEREL | 3,200 | 658 | 1,800 | 350 | - | - | - | - |
| SCUP OR PORGY | 300 | 26 | - | - | - | - | - | - |
| SEA BASS | 1,700 | 362 | - | - | - | - | - | - |
| SEA TROUT OR WEAKFISH, GRAY | 100 | 23 | 200 | 31 | - | - | - | - |
| SHARKS: | | | | | | | | |
| GRAYFISH | - | - | - | - | 200 | 8 | - | - |
| UNCLASSIFIED | - | - | 100 | 2 | 200 | 7 | - | - |
| STRIPED BASS | - | - | 32,400 | 6,212 | - | - | - | - |
| TAUTOG | 200 | 5 | 100 | 3 | - | - | - | - |
| TUNA, BLUEFIN | 1,000 | 119 | 1,600 | 209 | - | - | - | - |
| WHITING | - | - | - | - | 900 | 115 | - | - |
| UNCLASSIFIED, FOR FOOD | 100 | 8 | 100 | 10 | - | - | - | - |
| CRABS, BLUE, HARD | - | - | - | - | - | - | 18,200 | \$2,030 |
| TOTAL | 21,500 | 3,353 | 70,400 | 12,865 | 2,082,100 | 206,753 | 18,200 | 2,030 |

| SPECIES | PUSH NETS | | HARPOONS | | SPEARS | | DREDGES | |
|------------------------------|------------------------|---------|----------|----------|--------|-------|------------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| | EELS, COMMON | - | - | - | - | 1,100 | \$180 | - |
| FLOUNDERS: | | | | | | | | |
| BLACKBACK | - | - | - | - | - | - | 200 | \$10 |
| FLUKE | - | - | - | - | - | - | 3,800 | 591 |
| GRAY SOLE | - | - | - | - | - | - | 500 | 24 |
| YELLOWTAIL | - | - | - | - | - | - | 1,100 | 41 |
| SMORFISH | - | - | 23,100 | \$11,557 | - | - | - | 21 |
| CRABS, BLUE, HARD | - | - | - | - | - | - | 161,400 | 19,270 |
| LOBSTERS, NORTHERN | - | - | - | - | - | - | 100 | 31 |
| SHRIMP | 1,300 | \$1,300 | - | - | - | - | - | - |
| CLAMS: | | | | | | | | |
| HARD: | | | | | | | | |
| PUBLIC | - | - | - | - | - | - | 103,300 | 48,720 |
| PRIVATE | - | - | - | - | - | - | 1,300 | 508 |
| SURF | - | - | - | - | - | - | 26,697,200 | 1,693,177 |
| CONCHS | - | - | - | - | - | - | 54,600 | 7,664 |
| OYSTERS, MARKET, PRIVATE: | | | | | | | | |
| SPRING | - | - | - | - | - | - | 31,900 | 31,001 |
| FALL | - | - | - | - | - | - | 987,200 | 819,931 |
| SCALLOPS: | | | | | | | | |
| BAY | - | - | - | - | - | - | 70,800 | 66,494 |
| SEA | - | - | - | - | - | - | 342,700 | 118,681 |
| TOTAL | 1,300 | 1,300 | 23,100 | 11,557 | 1,100 | 180 | 28,456,100 | 2,806,343 |

| SPECIES | TONGS | | RAKES | | HOES | | BY HAND | |
|------------------------|---------------------------|-----------|---------|-----------|--------|---------|-----------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| | HORSESHOE CRABS | - | - | - | - | - | - | 500,000 | $3,750 |
| CLAMS: | | | | | | | | |
| HARD: | | | | | | | | |
| PUBLIC | 584,600 | \$252,534 | 439,000 | \$189,700 | - | - | 539,300 | 232,575 |
| PRIVATE | 20,000 | 8,564 | - | - | - | - | - | - |
| SOFT, PUBLIC | - | - | - | - | 6,000 | \$2,500 | 15,400 | 6,425 |
| CONCHS | - | - | - | - | - | - | 31,900 | 5,181 |
| OYSTERS, MARKET: | | | | | | | | |
| PUBLIC: | | | | | | | | |
| SPRING | 7,500 | 8,743 | - | - | - | - | - | - |
| FALL | 5,000 | 5,838 | - | - | - | - | 300 | 350 |
| PRIVATE: | | | | | | | | |
| SPRING | 16,100 | 18,781 | - | - | - | - | - | - |
| FALL | 52,100 | 48,800 | - | - | - | - | - | - |
| TERRAPIN | - | - | 2,100 | 735 | - | - | - | - |
| TURTLES: | | | | | | | | |
| SNAPPER | - | - | 7,200 | 771 | - | - | - | - |
| UNCLASSIFIED | - | - | 1,200 | 60 | - | - | - | - |
| TOTAL | 685,300 | 343,260 | 449,500 | 191,266 | 6,000 | 2,500 | 1,086,900 | 248,281 |

MIDDLE ATLANTIC FISHERIES

DELAWARE

OPERATING UNITS BY GEAR, 1961

| ITEM | HAUL SEINES, COMMON | PURSE SEINES, MENHADEN | OTTER TRAWLS, FISH | FYKE AND HOOP NETS | |
|--------------------------|------------------------|---------------------------|-----------------------|--------------------|--------|
| | | | | FISH | TURTLE |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | |
| ON VESSELS | - | 357 | 7 | - | - |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | 8 | - | 2 | 3 | 2 |
| CASUAL | 16 | - | - | 19 | 7 |
| TOTAL | 24 | 357 | 9 | 22 | 9 |
| VESSELS, MOTOR | - | 21 | 4 | - | - |
| GROSS TONNAGE | - | 4,036 | 117 | - | - |
| BOATS: | | | | | |
| MOTOR | 6 | 63 | 1 | 15 | 6 |
| OTHER | 7 | - | - | - | - |
| GEAR: | | | | | |
| NUMBER | 6 | 21 | 5 | 71 | 167 |
| LENGTH, YARDS | 2,060 | 7,320 | - | - | - |
| YARDS AT MOUTH | - | - | 113 | - | - |

| ITEM | POTS AND TRAPS | | GILL NETS | |
|-----------------------------------|----------------|--------|-------------------------|--------|
| | CRAB | EEL | ANCHOR, SET OR STAKE | DRIFT |
| | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN, ON BOATS AND SHORE: | | | | |
| REGULAR | 32 | 2 | 30 | - |
| CASUAL | 20 | 1 | 23 | 16 |
| TOTAL | 52 | 3 | 53 | 16 |
| BOATS, MOTOR | 30 | 3 | 30 | 15 |
| GEAR: | | | | |
| NUMBER | 3,510 | 125 | 30 | 15 |
| SQUARE YARDS | - | - | 52,500 | 10,600 |

| ITEM | L LINES, LONG OR SET WITH HOOKS | DREDGES | | |
|---------------------------|---------------------------------------|---------|--------|-------------------|
| | | CLAM | CRAB | OYSTER, COMMON |
| | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | |
| ON VESSELS | - | 30 | 12 | 9 |
| ON BOATS AND SHORE: | | | | |
| REGULAR | - | - | - | 6 |
| CASUAL | 2 | - | - | - |
| TOTAL | 2 | 30 | 12 | 15 |
| VESSELS, MOTOR | - | 10 | 6 | 3 |
| GROSS TONNAGE | - | 396 | 120 | 32 |
| BOATS, MOTOR | 2 | - | - | 3 |
| GEAR: | | | | |
| NUMBER | 2 | 20 | 7 | 8 |
| HOOKS OR BAIITS | 3,000 | - | - | - |
| YARDS AT MOUTH | - | 32 | 14 | 11 |

| ITEM | TONGS | RAKES | HOOKS | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|--------------------------|-------|-------|-------|--|
| | | | | |
| FISHERMEN: | | | | |
| ON VESSELS | - | - | - | 413 |
| ON BOATS AND SHORE: | | | | |
| REGULAR | 20 | 40 | - | 101 |
| CASUAL | 95 | 118 | 1 | 267 |
| TOTAL | 115 | 158 | 1 | 781 |
| VESSELS, MOTOR | - | - | - | 43 |
| GROSS TONNAGE | - | - | - | 4,665 |
| BOATS: | | | | |
| MOTOR | 100 | 133 | - | 340 |
| OTHER | 15 | 25 | - | 37 |
| GEAR, NUMBER | 115 | 158 | 1 | - |

MIDDLE ATLANTIC FISHERIES

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DELAWARE - CATCH BY GEAR, 1961

| SPECIES | HAUL SEINES | | PURSE SEINES | | OTTER TRAWLS | |
|---------------------------------------|-------------|--------|--------------|-------------|--------------|--------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BUTTERFISH | - | - | - | - | 3,100 | \$249 |
| CARP | 600 | \$60 | - | - | - | - |
| FLOUNDERS, FLUKE | - | - | - | - | 75,900 | 11,385 |
| KING WHITING OR "KINGFISH" | - | - | - | - | 1,000 | 200 |
| MENHADEN | - | - | 302,773,000 | \$3,356,200 | - | - |
| MINNOWS | 1,500 | 600 | - | - | - | - |
| MULLET | 1,800 | 360 | - | - | - | - |
| SEA TROUT OR WEAKFISH, GRAY | 104,000 | 18,727 | - | - | 28,100 | 5,059 |
| STRIPED BASS | - | - | - | - | 1,600 | 320 |
| WHITE PERCH | - | - | - | - | 11,000 | 880 |
| TOTAL | 107,900 | 19,747 | 302,773,000 | 3,356,200 | 120,700 | 18,093 |

| SPECIES | FYKE AND HOOP NETS | | POTS AND TRAPS | | GILL NETS ANCHOR, SET OR STAKE | |
|---------------------------------------|--------------------|-------|----------------|--------|--------------------------------------|--------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| CARP | 3,500 | \$350 | - | - | - | - |
| CATFISH | 400 | 30 | - | - | - | - |
| DRUM, BLACK | - | - | - | - | 400 | \$20 |
| EELS, COMMON | - | - | 5,500 | \$710 | - | - |
| FLOUNDERS, BLACKBACK | 20,500 | 820 | - | - | - | - |
| KING WHITING OR "KINGFISH" | - | - | - | - | 1,900 | 380 |
| SEA TROUT OR WEAKFISH, GRAY | 200 | 36 | - | - | 1,600 | 288 |
| SHAD | 1,000 | 150 | - | - | 78,400 | 11,760 |
| STRIPED BASS | - | - | - | - | 64,300 | 11,174 |
| WHITE PERCH | 1,000 | 80 | - | - | 14,700 | 1,176 |
| CRABS, BLUE: HARD | - | - | 628,500 | 47,136 | - | - |
| SOFT AND PEELER | - | - | 53,700 | 14,428 | - | - |
| TURTLES, SNAPPER | 13,000 | 1,060 | - | - | - | - |
| TOTAL | 39,600 | 2,526 | 687,700 | 62,274 | 161,300 | 24,798 |

| SPECIES | GILL NETS- CONTINUED DRIFT | | LINES, LONG OR SET WITH HOOKS | | DREDGES | |
|---|----------------------------------|-------|-------------------------------------|---------|---------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | 400 | \$20 | - | - | - | - |
| CATFISH | 300 | 25 | - | - | - | - |
| COD | - | - | 32,000 | \$2,560 | - | - |
| SEA TROUT OR WEAKFISH, GRAY | 200 | 36 | - | - | - | - |
| SHAD | 10,300 | 1,545 | - | - | - | - |
| STRIPED BASS | 100 | 20 | - | - | - | - |
| WHITING | 200 | 16 | - | - | - | - |
| CRABS, BLUE, HARD | - | - | - | - | 130,900 | \$4,582 |
| CLAMS, HARD: PUBLIC | - | - | - | - | 36,800 | 13,800 |
| PRIVATE | - | - | - | - | 330,900 | 124,080 |
| OYSTERS, MARKET, PRIVATE: SPRING | - | - | - | - | 14,000 | 7,458 |
| FALL | - | - | - | - | 18,900 | 11,333 |
| TOTAL | 11,500 | 1,662 | 32,000 | 2,560 | 531,500 | 161,253 |

| SPECIES | TONGS | | RAKES | | HOOKS | |
|-------------------------------|--------|----------|---------|----------|--------|-------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| CLAMS, HARD, PUBLIC | 85,800 | \$37,548 | 128,700 | \$56,322 | - | - |
| TURTLES, SNAPPER | - | - | - | - | 500 | \$40 |
| TOTAL | 85,800 | 37,548 | 128,700 | 56,322 | 500 | 40 |

MIDDLE ATLANTIC FISHERIES

HUDSON RIVER SHAD FISHERY

In 1961, the spring run of shad in the Hudson River yielded a commercial catch of 178,694 fish weighing 588,989 pounds and valued at \$98,331 to the fishermen. This was a decrease of 19 percent in poundage and 9 percent in value compared with the 1960 catch. The average price per pound to the fishermen was slightly more than in the previous year.

During 1961, there were 191 fishermen employed in the Hudson River shad fishery--9 percent less than operated in 1960. Statistics on the 1961 operating units and catch of shad in the Hudson River by New York and New Jersey fishermen are included in the operating unit and catch data for these States.

SUMMARY OF OPERATING UNITS AND CATCH, 1961

| ITEM | NEW YORK | | | NEW JERSEY | | | TOTAL | | |
|-------------------------|----------|---------|--------|------------|---------|----------|---------|---------|--------|
| | NUMBER | | | NUMBER | | | NUMBER | | |
| OPERATING UNITS | | | | | | | | | |
| FISHERMEN: | | | | | | | | | |
| ON BOATS AND SHORE: | | | | | | | | | |
| REGULAR | 11 | | | 6 | | | 17 | | |
| CASUAL | 136 | | | 38 | | | 174 | | |
| TOTAL | 147 | | | 44 | | | 191 | | |
| BOATS: | | | | | | | | | |
| MOTOR | 85 | | | 15 | | | 100 | | |
| OTHER | - | | | 5 | | | 5 | | |
| GEAR: | | | | | | | | | |
| HAUL SEINES | 3 | | | - | | | 3 | | |
| LENGTH, YARDS | 450 | | | - | | | 450 | | |
| GILL NETS: | | | | | | | | | |
| ANCHOR, SET OR | | | | | | | | | |
| STAKE | 54 | | | 12 | | | 66 | | |
| SQUARE YARDS | 92,639 | | | 30,022 | | | 122,661 | | |
| DRIFT | 46 | | | - | | | 46 | | |
| SQUARE YARDS | 125,873 | | | - | | | 125,873 | | |
| CATCH | NUMBER | POUNDS | VALUE | NUMBER | POUNDS | VALUE | NUMBER | POUNDS | VALUE |
| SHAD: | | | | | | | | | |
| HAUL SEINES | 554 | 1,800 | \$255 | - | - | - | 554 | 1,800 | \$255 |
| GILL NETS: | | | | | | | | | |
| ANCHOR, SET OR | | | | | | | | | |
| STAKE | 37,835 | 143,360 | 21,319 | 111,872 | 352,544 | \$65,220 | 149,707 | 495,904 | 86,539 |
| DRIFT | 28,433 | 91,285 | 11,537 | - | - | - | 28,433 | 91,285 | 11,537 |
| TOTAL | 66,222 | 236,445 | 33,111 | 111,872 | 352,544 | 65,220 | 178,694 | 588,989 | 98,331 |

NOTE:--THESE DATA REFLECT THE CATCH OF SHAD IN THE HUDSON RIVER BETWEEN WEEHAWKEN, NEW JERSEY AND ALBANY, NEW YORK.



SHAD

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The 1961 commercial catch of fish and shellfish landed in Maryland and Virginia totaled 478 million pounds valued at \$37 million to the fishermen. Compared with the previous year, this was an increase of 42 million pounds (10 percent) and \$2 million (6 percent). The larger catch was due primarily to improved economic conditions in the menhaden industry which resulted in greater fishing effort. Other species showing significant increases in landings were hard blue crabs, striped bass, hard clams, and shad. Major items taken in lesser volume were alewives, croakers, fluke, scup, spot, and soft clams. Virginia landings amounted to 411 million pounds (86 percent) valued at \$24 million--66 percent of the total for the two States.

During the year, 18,172 fishermen participated in making the catch--1,300 less than in 1960. The number of commercial fishing craft that operated in these States consisted of 1,350 vessels, 9,228 motor boats, and 1,019 other boats.

Manufactured fishery items produced in the two States were valued at \$58 million--\$3 million more than in 1960. The increase resulted from gains in the value of crab meat, menhaden products, breaded fish and shellfish, and canned fish and shellfish specialties. Shucked oysters showed the sharpest decline--down 600,000 gallons and \$3 million.

Oyster production continued at a low level, but was slightly larger than in 1960 as a result of a heavier spring yield in Virginia. The Virginia fall season was quite disappointing, particularly on public grounds, and packers looked to the Gulf States for supplemental supplies. Louisiana and Florida oysters were trucked in to help meet the demand. Maryland landings fell to a record low of 10.3 million pounds valued at \$7.8 million--a decrease of 1.4 million pounds and \$600,000 compared with 1960. The disease known as MSX was the principal cause of the relatively poor season, with a protracted spring freeze and poor oyster sets in the upper Bay during recent years also contributing factors.

The effects of the MSX disease were particularly apparent in waters of relatively high salinity; therefore, only oysters in the lower section of the Bay were affected. The seed oyster beds, which are in low salinity areas, were not harmed by the disease. However, the seed oyster fishery was adversely affected because of a poor set of spat. The demand for seed was reduced sharply as planters did not wish to put seed in areas where MSX might be present.

Under the pressure of diminishing returns, the improvement of oyster management practices received more than usual emphasis. Virginia severance taxes were increased to provide more funds for oyster bed replenishment; parasites and infectious diseases received wide and more intensive study; and for the first time in history, seed oysters were planted on public grounds. Maryland instituted a plan for dredging old shells to plant in hopes of improving spat collection. Results of actions taken by the States will not be apparent for several years.

Although the catch of nearly 75 million pounds of hard blue crabs was a record, crab meat prices were somewhat lower, which is customary in this fishery during periods of abundance. Peeler and soft blue crabs were also plentiful, though down slightly (3 percent) from 1960. A few more crab shedders started using sheltered, aerated tanks in an effort to improve production by cutting mortalities during the shedding process. The object is to maintain lower water temperatures and increase the oxygen content during the hot months when mortality is high in open floats.

Landings of soft clams were 875,000 pounds less than in 1960, due to lack of demand. New England is the principal market for these clams, and Maryland production can more than supply the limited market. Competition among producers is keen, and prices to the fishermen low, averaging \$3 per bushel. This price is much lower than in New England, perhaps because of the preference of New Englanders for home grown clams. The Maryland State legislature opened Somerset and St. Mary's Counties to soft clam dredging. Fifteen vessels began operating in St. Mary's, but no interest was shown in Somerset County. Soft clams are an unexploited resource in Virginia, and as long as Maryland continues to supply the market, little interest will be shown in Virginia for soft clams.

CHESAPEAKE FISHERIES

Hard clam production in Virginia was relatively stable but more than doubled in Maryland. This increase, amounting to 285,000 pounds, was due to the passage of a bill allowing the use of clam scrapes in Worcester County.

The once active Maryland surf clam fishery was practically nonexistent in 1961--only one vessel operated part time to obtain clams for use as codfish bait in winter and as sport fishing bait in summer. Low market prices and high operating costs, compared with the major producing areas of New Jersey, just about put an end to this fishery late in 1960.

Prices for fish meal improved in 1961, and the fishery was in considerably better economic condition than in the previous year. However, one of the five processing plants in Virginia remained closed. The total menhaden catch for reduction was 279 million pounds, an increase of 50 million pounds over 1960. Competition caused at least one producer to market a plant food prepared from fish solubles and production of other products, such as pet food and fish protein concentrate, was under consideration by industry members.

Record landings of 7,262,000 pounds of striped bass in the Chesapeake area dropped the value to \$902,000, a decline of \$89,000 below the previous year. Maryland landings of this species, which continued at a record level for the fourth consecutive year, were nearly 23 percent greater than in 1960. Biological investigations indicate that plentiful stocks of this species can be expected to continue for several years.

For the fourth straight year, the catch of croakers declined, and the 3 million pounds landed were the lowest reported since 1891. The decline was apparently due to high mortality of young croakers caused by unusually cold weather at the time they were in inshore waters. According to the Virginia Institute of Marine Science, there is little hope of improvement before 1963.

The longline cod fishery is relatively new to Maryland, having been started in 1959 by other trawlers who found normal operations unprofitable. In 1961, the 24 vessels engaged in the fishery landed a record 789,000 pounds at Ocean City.

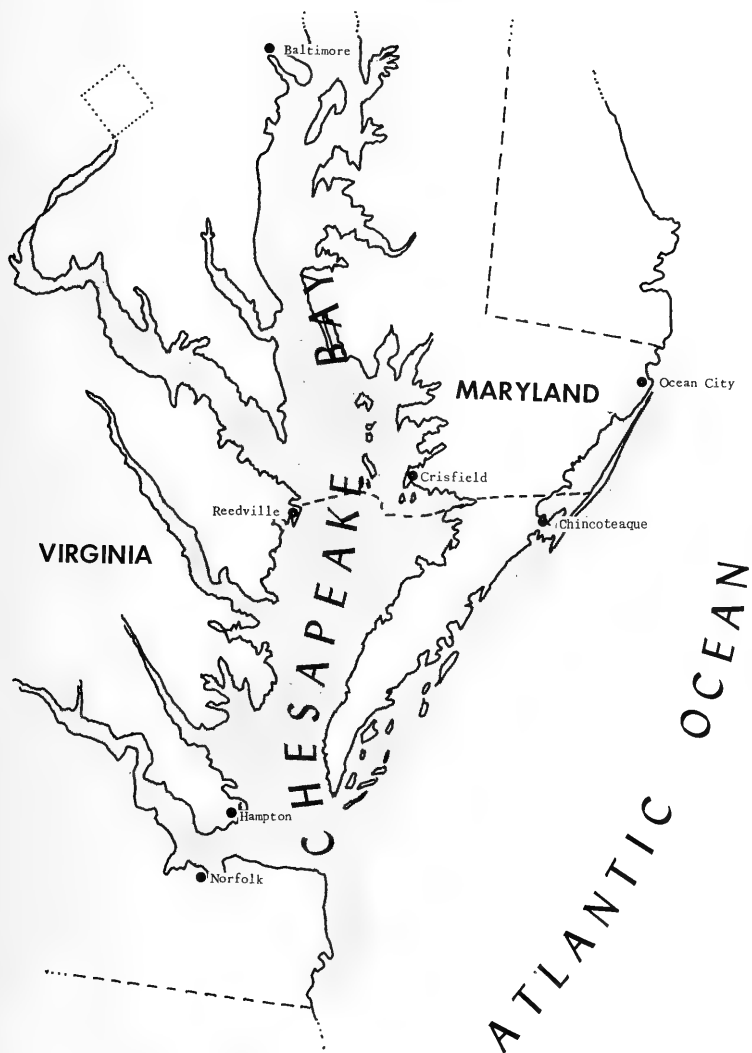
When the Federal minimum hourly wage was raised to \$1.00 for employees not formerly covered, the management of many seafood packing houses predicted disastrous consequences, which did not materialize. The cost of shucking oysters increased about 10 to 25 cents per gallon to bring some borderline shuckers up to the \$1.00-per-hour minimum. The crab meat industry was hardest hit. Picking rates were raised to help some of the slower workers make the minimum; but many could not, and exemptions were obtained for some on the basis of physical handicaps.

The Bureau acknowledges the assistance of the following organizations in the collection of the data appearing in this Section; Maryland Natural Resources Institute, and Maryland Department of Tidewater Fisheries; the Virginia Commission of Fisheries, and Virginia Institute of Marine Science.

Condensed summary data on the operating units and catch, by States, appearing on the following pages have been previously published in Current Fishery Statistics No. 3043. The catch of fish and shellfish in the bay and ocean areas of Maryland and Virginia is shown at the end of this section. Additional data may be found in the Maryland and Virginia monthly and annual landing bulletins published by the Branch of Statistics in cooperation with the respective States. Information on the daily, monthly, and annual production of fishery products in the more important areas of these States is available in reports published by the Bureau's Fishery Market News Service office at Hampton, Virginia.

CHESAPEAKE FISHERIES

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CHESAPEAKE STATES

CHESAPEAKE FISHERIES

SECTIONAL SUMMARIES

SUMMARY OF CATCH, 1961

(MILLIONS OF POUNDS AND MILLIONS OF DOLLARS)

| STATE | FISH | | SHELLFISH, ETC. | | TOTAL | |
|--------------------|----------|-------|-----------------|-------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| MARYLAND | 21 | 1 | 46 | 12 | 67 | 13 |
| VIRGINIA | 346 | 7 | 65 | 17 | 411 | 24 |
| TOTAL | 367 | 8 | 111 | 29 | 478 | 37 |

SUMMARY OF OPERATING UNITS, 1961

| ITEM | MARYLAND | | VIRGINIA | | TOTAL, EXCLUSIVE OF DUPLICATION |
|------------------------------------|-----------|---------|----------|--------|------------------------------------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | |
| ON VESSELS | 1,374 | 2,576 | | | 3,920 |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | 4,220 | 3,806 | | | 8,026 |
| CASUAL | 3,515 | 2,711 | | | 6,226 |
| TOTAL | 9,109 | 9,093 | | | 18,172 |
| VESSELS: | | | | | |
| MOTOR | 475 | 620 | | | 1,285 |
| GROSS TONNAGE | 4,550 | 18,930 | | | 23,290 |
| SAIL | 65 | - | | | 65 |
| GROSS TONNAGE | 716 | - | | | 716 |
| TOTAL VESSELS | 540 | 620 | | | 1,350 |
| TOTAL GROSS TONNAGE | 5,266 | 18,930 | | | 24,006 |
| BOATS: | | | | | |
| MOTOR | 5,524 | 3,704 | | | 9,228 |
| OTHER | 378 | 641 | | | 1,019 |
| GEAR: | | | | | |
| HAUL SEINES, COMMON | 110 | 177 | | | 287 |
| LENGTH, YARDS | 46,150 | 108,840 | | | 154,990 |
| PURSE SEINES, MENHADEN | 1 | 26 | | | 26 |
| LENGTH, YARDS | 375 | 9,750 | | | 9,750 |
| OTTER TRAWLS, FISH | 27 | 67 | | | 113 |
| YARDS AT MOUTH | 686 | 2,158 | | | 2,824 |
| POUND NETS: | | | | | |
| CRAB | - | 2,787 | | | 2,787 |
| FISH | 296 | 643 | | | 939 |
| FYKE AND HOOP NETS, FISH | 1,180 | 796 | | | 1,970 |
| POTS AND TRAPS: | | | | | |
| CRAB | 61,275 | 113,995 | | | 175,170 |
| EEL | 6,147 | 2,482 | | | 8,629 |
| FISH | 600 | 5,740 | | | 6,340 |
| TURTLE | 232 | 318 | | | 550 |
| SLAT TRAPS | - | 4 | | | 4 |
| GILL-NETS: | | | | | |
| ANCHOR, SET OR STAKE | 1,780 | 1,122 | | | 2,902 |
| SQUARE YARDS | 1,798,195 | 650,850 | | | 2,449,045 |
| DRIFT | 420 | 530 | | | 947 |
| SQUARE YARDS | 732,590 | 711,400 | | | 1,413,990 |
| LINES: | | | | | |
| HAND | 447 | 657 | | | 1,104 |
| HOOKS | 447 | 651 | | | 1,108 |
| LONG OR SET WITH HOOKS | 37 | 104 | | | 141 |
| HOOKS | 51,950 | 19,850 | | | 71,800 |
| TROT WITH BAITS | 2,332 | 210 | | | 2,542 |
| BAITS | 894,575 | 129,600 | | | 1,024,175 |
| DIP NETS, COMMON | 226 | 190 | | | 416 |
| SCRAPES | 475 | 140 | | | 615 |
| YARDS AT MOUTH | 541 | 231 | | | 772 |
| DREDGES: | | | | | |
| CLAM | 281 | 37 | | | 318 |
| YARDS AT MOUTH | 282 | 30 | | | 312 |
| CRAB | 4 | 450 | | | 454 |
| YARDS AT MOUTH | 4 | 764 | | | 768 |
| OYSTER, COMMON | 199 | 700 | | | 899 |
| YARDS AT MOUTH | 217 | 633 | | | 1,050 |
| SCALLOP | - | 16 | | | 16 |
| YARDS AT MOUTH | - | 56 | | | 56 |
| TONGS: | | | | | |
| OYSTER | 4,397 | 3,060 | | | 7,457 |
| OTHER | 106 | 795 | | | 903 |
| RAKES: | | | | | |
| OYSTER | - | 42 | | | 42 |
| OTHER | 1 | 664 | | | 665 |

CHESAPEAKE FISHERIES

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CATCH BY STATES, 1961 (THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | MARYLAND | | VIRGINIA | | TOTAL | |
|--|----------|-------|----------|-------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH | | | | | | |
| ALEWIVES | 2,444 | 34 | 15,526 | 288 | 17,970 | 322 |
| BLUEFISH | (1) | 19 | 294 | 44 | 313 | 47 |
| BONITO | (1) | (1) | 23 | 3 | 23 | 3 |
| BOWFIN | (1) | (1) | (1) | (1) | (1) | (1) |
| BUTTERFISH | 79 | 5 | 1,591 | 139 | 1,670 | 144 |
| CABJO | (1) | (1) | 21 | 2 | 21 | 2 |
| CARP | 607 | 21 | 241 | 7 | 848 | 28 |
| CATFISH AND BULLHEADS | 439 | 25 | 2,469 | 164 | 2,908 | 189 |
| COO | 789 | 71 | 30 | 3 | 819 | 74 |
| CRAPPIE | (1) | (1) | (1) | (1) | (1) | (1) |
| CROAKER | 49 | 14 | 3,082 | 565 | 3,131 | 579 |
| DRUM: | | | | | | |
| BLACK | 1 | (1) | 248 | 11 | 249 | 11 |
| RED | - | - | 12 | 1 | 12 | 1 |
| EELS, COMMON | 159 | 13 | 225 | 30 | 384 | 43 |
| FLOUNDERS: | | | | | | |
| BLACKBACK | 3 | (1) | 1 | (1) | 4 | (1) |
| FLUKE | 539 | 94 | 2,193 | 368 | 2,732 | 462 |
| UNCLASSIFIED | 19 | 2 | 28 | 4 | 47 | 6 |
| GIZZARD SHAD | 15 | (1) | 98 | 1 | 113 | 1 |
| HADDOCK | - | - | (1) | (1) | (1) | (1) |
| HAKE: | | | | | | |
| RED | 17 | (1) | 10 | (1) | 27 | (1) |
| WHITE | (1) | (1) | 8 | 1 | 8 | 1 |
| HARVESTFISH | 7 | (1) | 254 | 24 | 254 | 24 |
| HERRING, SEA | 16 | 1 | 4 | (1) | 11 | (1) |
| HICKORY SHAD | 17 | (1) | 54 | 3 | 70 | 4 |
| HOGCHOKER | - | - | 18 | 3 | 16 | (1) |
| KING MACKEREL | 19 | 1 | 190 | 16 | 209 | 17 |
| KING WHITING OR "KINGFISH" | 19 | 3 | 387 | 61 | 406 | 64 |
| MACKEREL | 3,578 | 59 | 295,101 | 3,087 | 298,679 | 3,146 |
| MENHADEN | - | - | 33 | 3 | 33 | 3 |
| MULLET | 1 | (1) | 1 | (1) | 2 | (1) |
| PIGFISH | 2 | (1) | - | - | 2 | (1) |
| PIKE OR PICKEREL | - | - | (1) | (1) | (1) | (1) |
| POLLOCK | - | - | (1) | (1) | (1) | (1) |
| POMPANO | (1) | (1) | (1) | (1) | (1) | (1) |
| SAND PERCH | 99 | 4 | 11,256 | 655 | 11,355 | 659 |
| SCUP OR PORGY | 138 | 19 | 3,211 | 534 | 3,349 | 553 |
| SEA TROUT OR WEAKFISH: | | | | | | |
| GRAY | 279 | 17 | 1,194 | 171 | 1,473 | 188 |
| SPOTTED | 1,815 | 289 | 74 | 15 | 74 | 15 |
| SHAD | - | - | 1,329 | 222 | 3,144 | 511 |
| SHARKS: | | | | | | |
| GRAYFISH | 25 | 1 | 438 | 13 | 463 | 14 |
| UNCLASSIFIED | 42 | 1 | (1) | (1) | 42 | 1 |
| SKATES | 2 | (1) | - | - | 2 | (1) |
| SPADEFISH | (1) | (1) | 1 | (1) | 1 | (1) |
| SPANISH MACKEREL | 10 | 1 | 123 | 20 | 123 | 20 |
| SPOT | 5,408 | 612 | 1,184 | 115 | 1,194 | 116 |
| STRIPED BASS | 13 | 3 | 1,694 | 290 | 7,262 | 902 |
| STURGEON | 2 | (1) | 12 | 3 | 25 | 6 |
| SUCKERS | 6 | 1 | - | (1) | 7 | (1) |
| SUNFISH | 466 | 10 | 694 | 19 | 1,160 | 29 |
| SWELLFISH | 2 | (1) | 1 | (1) | 3 | (1) |
| TAUOG | (1) | (1) | 29 | 3 | 29 | 3 |
| TILEFISH: | | | | | | |
| TUNA, BLUEFIN | 1,917 | 95 | 433 | 35 | 1,750 | 130 |
| WHITE PERCH | 66 | 2 | 407 | 12 | 473 | 14 |
| WHITING | 86 | 8 | 5 | 1 | 91 | 9 |
| YELLOW PERCH | 2 | (1) | 94 | 7 | 96 | 7 |
| UNCLASSIFIED | 2,788 | 13 | 1,434 | 22 | 4,222 | 35 |
| FOR FOOD | - | - | - | - | - | - |
| BAIT, REDUCTION, AND ANIMAL FOOD | 21,406 | 1,422 | 345,921 | 6,965 | 367,327 | 8,387 |
| SHELLFISH, ETC. | | | | | | |
| CRABS, BLUE: | | | | | | |
| HARD | 26,658 | 1,466 | 43,976 | 1,945 | 70,634 | 3,411 |
| SOFT AND PEELER | 2,692 | 614 | 1,568 | 422 | 4,260 | 1,036 |
| TOTAL CRABS | 29,350 | 2,080 | 45,544 | 2,367 | 74,894 | 4,447 |
| LOBSTERS, NORTHERN | | | | | | |
| 2 | 1 | 14 | 6 | 15 | 7 | 7 |
| CLAMS: | | | | | | |
| HARD: | | | | | | |
| PUBLIC | 457 | 217 | 1,232 | 572 | 1,689 | 789 |
| PRIVATE | - | - | 629 | 293 | 629 | 293 |
| SOFT, PUBLIC | 4,692 | 1,231 | 3 | 1 | 4,695 | 1,232 |
| SURF | 71 | 6 | - | - | 71 | 6 |
| TOTAL CLAMS | 5,220 | 1,454 | 1,864 | 866 | 7,084 | 2,320 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CHESAPEAKE FISHERIES

CATCH BY STATES, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | MARYLAND | | VIRGINIA | | TOTAL | |
|-------------------------------|----------|--------|----------|--------|----------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH - CONTINUED | | | | | | |
| CONCHS. | 66 | 6 | 135 | 10 | 201 | 16 |
| OYSTERS, MARKET: | | | | | | |
| PUBLIC: | | | | | | |
| SPRING. | 3,730 | 2,668 | 2,325 | 1,929 | 6,055 | 4,597 |
| FALL. | 5,212 | 3,999 | 870 | 717 | 6,082 | 4,716 |
| PRIVATE: | | | | | | |
| SPRING. | 596 | 484 | 7,493 | 6,105 | 8,089 | 6,589 |
| FALL. | 799 | 652 | 6,475 | 5,180 | 7,274 | 5,832 |
| TOTAL OYSTERS | 10,337 | 7,803 | 17,163 | 13,931 | 27,500 | 21,734 |
| SCALLOPS, SEA | - | - | 318 | 131 | 318 | 131 |
| SQUID | 35 | 2 | 314 | 16 | 349 | 18 |
| TERRAPIN. | 8 | 3 | 9 | 4 | 17 | 7 |
| TURTLES: | | | | | | |
| LOGGERHEAD. | - | - | 1 | (1) | 1 | (1) |
| SNAPPER | 68 | 7 | 131 | 19 | 199 | 26 |
| TOTAL TURTLES | 68 | 7 | 132 | 19 | 200 | 26 |
| TOTAL SHELLFISH, ETC. | 45,086 | 11,356 | 65,493 | 17,350 | 110,579 | 28,706 |
| GRAND TOTAL | 66,492 | 12,778 | 411,414 | 24,315 | 477,906 | 37,093 |

1/ LESS THAN 500 POUNDS OR \$500.

CATCH OF CERTAIN SHELLFISH, 1961

(NUMBER AND BUSHELS)

| SPECIES | | MARYLAND | | VIRGINIA | | TOTAL | |
|---------------------------|------------------------|------------|-------------|-------------|-------------|-------------|-------------|
| | | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| CRABS, BLUE: | | | | | | | |
| HARD. | NUMBER | 63,979,900 | \$1,466,215 | 131,468,838 | \$1,944,528 | 195,468,738 | \$3,410,743 |
| SOFT AND PEELER | DO | 10,768,000 | 613,778 | 9,048,514 | 422,141 | 19,816,514 | 1,035,919 |
| CLAMS: | | | | | | | |
| HARD: | U. S. STANDARD BUSHELS | | | | | | |
| PUBLIC. | | 57,068 | 217,079 | 154,038 | 572,370 | 211,125 | 789,449 |
| PRIVATE. | DO | - | - | 78,625 | 292,631 | 78,625 | 292,631 |
| SOFT, PUBLIC. | DO | 391,000 | 1,231,082 | 225 | 884 | 391,225 | 1,231,966 |
| SURF. | DO | 4,171 | 5,779 | - | - | 4,171 | 5,779 |
| CONCHS. | DO | 3,325 | 5,623 | 6,770 | 10,174 | 10,095 | 15,997 |
| OYSTERS, MARKET: | | | | | | | |
| PUBLIC: | | | | | | | |
| SPRING. | DO | 788,478 | 2,667,781 | 553,642 | 1,929,590 | 1,342,120 | 4,597,371 |
| FALL. | DO | 1,067,892 | 3,998,947 | 181,231 | 716,933 | 1,249,123 | 4,715,880 |
| PRIVATE: | | | | | | | |
| SPRING. | DO | 115,245 | 483,436 | 1,779,974 | 6,105,383 | 1,895,219 | 6,588,819 |
| FALL. | DO | 153,348 | 652,228 | 1,400,146 | 5,180,201 | 1,553,494 | 5,832,429 |
| SCALLOPS, SEA | DO | - | - | 52,950 | 130,770 | 52,950 | 130,770 |

NOTE:--THE CAPACITY OF A U.S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

AVERAGE WEIGHTS OF CERTAIN SHELLFISH, 1961

| SPECIES | | MARYLAND | VIRGINIA |
|---------------------------|---|----------|----------|
| | | QUANTITY | QUANTITY |
| CRABS, BLUE: | | | |
| HARD. | NUMBER PER POUND | 2.40 | 2.99 |
| SOFT AND PEELER | DO | 4.00 | 5.77 |
| CLAMS: | | | |
| HARD: | POUNDS OF MEATS PER U. S. STANDARD BUSHEL | | |
| PUBLIC. | | 8.00 | 8.00 |
| PRIVATE. | DO | - | 8.00 |
| SOFT, PUBLIC. | DO | 12.00 | 12.00 |
| SURF. | DO | 17.00 | - |
| CONCHS. | DO | 20.00 | 20.00 |
| OYSTERS, MARKET: | | | |
| PUBLIC: | | | |
| SPRING. | DO | 4.73 | 4.20 |
| FALL. | DO | 4.88 | 4.80 |
| PRIVATE: | | | |
| SPRING. | DO | 5.17 | 4.21 |
| FALL. | DO | 5.21 | 4.62 |
| SCALLOPS, SEA | DO | - | 6.00 |

NOTE:--THE CAPACITY OF A U.S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

CHESAPEAKE FISHERIES

183

MANUFACTURED FISHERY PRODUCTS, 1961

| ITEM | MARYLAND | | VIRGINIA | | |
|---|----------------|--------------|-------------|-------------|------------|
| | QUANTITY | VALUE | QUANTITY | VALUE | |
| ALEWIVES: | | | | | |
| CANNED: | | | | | |
| FISH | STANDARD CASES | (1) | (1) | 44,994 | \$205,107 |
| ROE | DO | (1) | (1) | 15,932 | 220,906 |
| SALTED: | | | | | |
| BRINED, WHOLE AND FILLETS (SOME WITH ROE) | POUNDS | 712,121 | \$59,541 | 1,784,070 | 111,661 |
| PICKLED, WHOLE AND FILLETS | DO | 90,000 | 9,900 | 1,047,800 | 123,909 |
| MEAL | TONS | - | - | 132 | 13,070 |
| OIL | GALLONS | (1) | (1) | 7,900 | 2,830 |
| MENHADEN: | | | | | |
| MEAL | TONS | - | - | 29,773 | 3,191,354 |
| OIL | GALLONS | - | - | 1,865,600 | 702,600 |
| SOLUBLES | TONS | - | - | 13,164 | 638,700 |
| CRABS, BLUE: | | | | | |
| COOKED MEAT | POUNDS | 4,979,969 | 4,411,579 | 3,952,300 | 3,478,000 |
| SPECIALTIES, FROZEN (CAKES, DEVILED AND STUFFED) | DO | 1,498,810 | 2,481,965 | 278,367 | 240,217 |
| MEAL | TONS | 4,333 | 192,313 | 4,673 | 173,500 |
| SHRIMP, BREADED, FROZEN | POUNDS | (1) | (1) | 178,905 | 163,310 |
| CLAMS: | | | | | |
| SOFT: | | | | | |
| SHUCKED, FRESH AND FROZEN | GALLONS | 332,962 | 1,776,916 | - | - |
| BREADED, FROZEN | POUNDS | 194,308 | 200,150 | - | - |
| HARD, SHUCKED, FRESH AND FROZEN | GALLONS | - | - | 2,046 | 13,600 |
| OYSTERS: | | | | | |
| SHUCKED, FRESH AND FROZEN | DO | 922,580 | 7,203,195 | 1,414,302 | 11,264,442 |
| BREADED, FROZEN | POUNDS | 207,366 | 261,668 | 581,800 | 539,317 |
| STEAMED, FROZEN (INTERMEDIATE PREPARATION) | DO | - | - | 555,200 | 1,232,500 |
| SHELL LIME AND POULTRY GRIT | TONS | (1) | (1) | 4,263 | 110,454 |
| SCALLOPS, BREADED, FROZEN | POUNDS | 75,000 | 60,000 | 203,000 | 128,803 |
| UNCLASSIFIED PRODUCTS: | | | | | |
| FROZEN FISH AND SHELLFISH | DO | 2/17,408,725 | 2/7,146,213 | 3/1,454,863 | 3/585,650 |
| CANNED FISH AND SHELLFISH 4/ | STANDARD CASES | 627,163 | 5,677,922 | 66,783 | 345,403 |
| CURED FISH | POUNDS | 5/ 7,084,091 | 5/3,978,896 | - | - |
| INDUSTRIAL PRODUCTS | - | - | 6/1,409,473 | - | 7/ 88,900 |
| TOTAL | - | - | 34,879,731 | - | 23,574,233 |

1/ INCLUDED WITH "UNCLASSIFIED PRODUCTS." 2/ INCLUDES FROZEN-BREADED FISH PORTIONS, FISH STICKS, SHRIMP, AND SOFT-SHELL CRABS; FROZEN FISH CAKES AND PORTIONS. 3/ INCLUDES FROZEN BREADED FISH FILLETS, FISH PORTIONS, AND FISH STICKS; REFRIGERATED SHRIMP COCKTAIL; FROZEN FLOUNDER FILLETS, FISH CAKES, FISH DINNERS, AND SHELLFISH DINNERS. 4/ INCLUDES CANNED ALEWIVES; ALEWIFE ROE, ANCHOVY PASTE, SHAD ROE, TUNA, FISH CAKES, ANIMAL FOOD, CRAB BISQUE AND SOUP, SOFT-SHELL CRABS, LOBSTER SOUP, SHRIMP BISQUE AND SOUP, CLAM BISQUE, CLAMS IN THE SHELL, AND OYSTER BISQUE. 5/ INCLUDES SALTED ALEWIFE FILLETS IN SAUCE, SEA HERRING IN BRINE AND OTHER PREPARATIONS, AND HERRING EGGS; SMOKED BUTTERFISH, CARP, CHUBS, EELS, SABLEFISH, SALMON, SEA HERRING, SHAD, STURGEON, AND WHITEFISH. 6/ INCLUDES THE VALUE OF ALEWIFE OIL, UNCLASSIFIED MEAL, MARINE PEARL SHELL BUTTONS, AND OYSTER SHELL LIME AND POULTRY GRIT. 7/ INCLUDES THE VALUE OF ALEWIFE SOLUBLES, UNCLASSIFIED MEAL, AND PEARL ESSENCE. NOTE:--SOME OF THE ABOVE PRODUCTS MAY HAVE BEEN MANUFACTURED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR A FOREIGN COUNTRY; THEREFORE, THEY CANNOT BE CORRELATED DIRECTLY WITH THE CATCH WITHIN THE STATE.

SUMMARY OF MANUFACTURED PRODUCTS, 1962

(VALUE IN THOUSANDS OF DOLLARS)

| SUMMARY OF ITEMS | QUANTITY | VALUE |
|-------------------------------------|------------------|--------|
| PACKAGED, FRESH AND FROZEN: | | |
| NOT BREADED: | | |
| FISH | 1,000 POUNDS | 758 |
| SHELLFISH | DO | 32,867 |
| BREADED: | | |
| FISH | DO | 17,785 |
| SHELLFISH | DO | 1,539 |
| SPECIALTIES | DO | 1,999 |
| CANNED | 1,000 STD. CASES | 757 |
| CURED (SALTED AND SMOKED) | 1,000 POUNDS | 10,718 |
| INDUSTRIAL PRODUCTS | - | - |
| TOTAL | - | 58,454 |

WHOLESALE AND MANUFACTURING, 1961

| ITEM | MARYLAND | VIRGINIA | TOTAL |
|-------------------------------------|----------|----------|--------|
| | NUMBER | NUMBER | NUMBER |
| WHOLESALE AND MANUFACTURING: | | | |
| ESTABLISHMENTS | 256 | 341 | 597 |
| PERSONS ENGAGED: | | | |
| AVERAGE FOR SEASON | 6,532 | 6,974 | 13,506 |
| AVERAGE FOR YEAR | 4,419 | 2,725 | 7,144 |

CHESAPEAKE FISHERIES

MARYLAND

OPERATING UNITS BY GEAR, 1961

| ITEM | HAUL SEINES, COMMON | PURSE SEINES, MENHADEN | OTTER TRAWLS, FISH | POUND NETS, FISH | FYKE AND HOOP NETS | POTS AND TRAPS |
|--------------------------|------------------------|---------------------------|-----------------------|---------------------|--------------------|----------------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | CRAB |
| FISHERMEN: | | | | | | |
| ON VESSELS | 142 | 9 | 60 | 98 | 10 | 168 |
| ON BOATS AND SHORE: | | | | | | |
| REGULAR | 345 | - | 6 | 338 | 83 | 371 |
| CASUAL | 64 | - | - | 10 | 32 | 127 |
| TOTAL | 551 | 9 | 66 | 446 | 125 | 666 |
| VESSELS, MOTOR | 27 | 1 | 24 | 20 | 5 | 129 |
| GROSS TONNAGE | 247 | 31 | 654 | 164 | 40 | 1,044 |
| BOATS: | | | | | | |
| MOTOR | 111 | 1 | 3 | 73 | 64 | 429 |
| OTHER | 89 | - | - | 94 | - | - |
| GEAR: | | | | | | |
| NUMBER | 110 | 1 | 27 | 296 | 1,180 | 61,275 |
| LENGTH, YARDS | 46,150 | 375 | - | - | - | - |
| YARDS AT MOUTH | - | - | 666 | - | - | - |

| ITEM | POTS AND TRAPS - CONTINUED | | | GILL NETS | | LINES |
|--------------------------|----------------------------|------|--------|----------------------|---------|-------|
| | EEL | FISH | TURTLE | ANCHOR, SET OR STAKE | DRIFT | HAND |
| FISHERMEN: | | | | | | |
| ON VESSELS | - | 2 | - | 212 | 129 | 2 |
| ON BOATS AND SHORE: | | | | | | |
| REGULAR | 130 | - | 23 | 951 | 305 | 5 |
| CASUAL | 62 | - | 2 | 769 | 339 | 6 |
| TOTAL | 192 | 2 | 25 | 1,932 | 773 | 13 |
| VESSELS, MOTOR | - | 1 | - | 104 | 62 | 1 |
| GROSS TONNAGE | - | 14 | - | 989 | 673 | 14 |
| BOATS: | | | | | | |
| MOTOR | 133 | - | 22 | 1,020 | 343 | 11 |
| OTHER | - | - | - | 105 | - | - |
| GEAR: | | | | | | |
| NUMBER | 6,147 | 600 | 232 | 1,780 | 420 | 447 |
| SQUARE YARDS | - | - | - | 1,796,195 | 732,590 | - |
| HOOKS OR BAITS | - | - | - | - | - | 447 |

| ITEM | LINES - CONTINUED | | DIP NETS, COMMON | SCRAPES | DREDGES | |
|--------------------------|------------------------|-----------------|---------------------|---------|---------|------|
| | LONG OR SET WITH HOOKS | TROT WITH BAITS | | | CLAM | CRAB |
| FISHERMEN: | | | | | | |
| ON VESSELS | 35 | 62 | - | - | 187 | - |
| ON BOATS AND SHORE: | | | | | | |
| REGULAR | 20 | 1,219 | 101 | 237 | 308 | 4 |
| CASUAL | 6 | 1,031 | 125 | 6 | - | - |
| TOTAL | 63 | 2,332 | 226 | 245 | 495 | 4 |
| VESSELS, MOTOR | 16 | 76 | - | - | 94 | - |
| GROSS TONNAGE | 351 | 581 | - | - | 759 | - |
| BOATS: | | | | | | |
| MOTOR | 14 | 2,125 | 165 | 240 | 187 | 4 |
| OTHER | - | 7 | 61 | - | - | - |
| GEAR: | | | | | | |
| NUMBER | 37 | 2,332 | 226 | 475 | 281 | 4 |
| HOOKS OR BAITS | 51,950 | 894,575 | - | - | - | - |
| YARDS AT MOUTH | - | - | - | 541 | 262 | 4 |

(CONTINUED ON NEXT PAGE)

CHESAPEAKE FISHERIES

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MARYLAND - OPERATING UNITS BY GEAR, 1961 - Continued

| ITEM | DREDGES- CONTINUED | TONGS | | RAKES | BY HAND | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|-------------------------------|-----------------------|--------|--------|-------|---------|--|
| | OYSTER, COMMON | OYSTER | OTHER | | | |
| | NUMBER | NUMBER | NUMBER | | | |
| FISHERMEN: | | | | | | |
| ON VESSELS | 411 | 396 | 2 | - | - | 1,374 |
| ON BOATS AND SHORE: | | | | | | |
| REGULAR | 79 | 3,055 | 106 | 1 | 30 | 4,220 |
| CASUAL | - | 946 | - | - | 106 | 3,515 |
| TOTAL | 490 | 4,397 | 108 | 1 | 136 | 9,109 |
| VESSELS: | | | | | | |
| MOTOR | 14 | 254 | 1 | - | - | 475 |
| GROSS TONNAGE | 173 | 2,016 | 9 | - | - | 4,550 |
| SAIL | 65 | - | - | - | - | 65 |
| GROSS TONNAGE | 716 | - | - | - | - | 716 |
| TOTAL VESSELS | 79 | 254 | 1 | - | - | 540 |
| TOTAL GROSS TONNAGE | 869 | 2,016 | 9 | - | - | 5,266 |
| BOATS: | | | | | | |
| MOTOR | 29 | 2,954 | 102 | 1 | - | 5,524 |
| OTHER | - | 42 | - | - | - | 378 |
| GEAR: | | | | | | |
| NUMBER | 199 | 4,397 | 108 | 1 | - | - |
| YARDS AT MOUTH | 217 | - | - | - | - | - |

MARYLAND - CATCH BY GEAR, 1961

| SPECIES | HAUL SEINES | | PURSE SEINES | | OTTER TRAWLS | |
|---------------------------------------|-------------|--------|--------------|----------|--------------|--------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | 7,500 | \$104 | - | - | - | - |
| BLUEFISH | 3,300 | 521 | - | - | 3,600 | \$211 |
| BUTTERFISH | - | - | - | - | 76,700 | 4,935 |
| CARD | - | - | - | - | 100 | 6 |
| CARP | 554,100 | 18,839 | - | - | - | - |
| CATFISH AND BULLHEADS | 97,100 | 5,632 | - | - | - | - |
| COD | - | - | - | - | 125,000 | 12,334 |
| CROAKER | 37,700 | 10,782 | - | - | 100 | 23 |
| DRUM, BLACK | - | - | - | - | 100 | 5 |
| EELS, COMMON | 600 | 48 | - | - | 200 | 5 |
| FLOUNDERS: | | | | | | |
| BLACKBACK | - | - | - | - | 2,600 | 179 |
| FLUKE | - | - | - | - | 535,900 | 93,125 |
| UNCLASSIFIED | 100 | 9 | - | - | - | - |
| GIZZARD SHAD | 2,500 | 52 | - | - | - | - |
| HAKE: | | | | | | |
| RED | - | - | - | - | 10,900 | 171 |
| WHITE | - | - | - | - | 500 | 10 |
| HERRING, SEA | - | - | - | - | 6,900 | 128 |
| KING WHITING OR "KINGFISH" | - | - | - | - | 19,100 | 1,274 |
| MACKEREL | - | - | - | - | 1,300 | 236 |
| MENHADEN | 42,200 | 675 | 2,320,800 | \$39,080 | - | - |
| PIGFISH | - | - | - | - | 600 | 13 |
| SAND PERCH | 200 | 8 | - | - | 300 | 14 |
| SCUP OR PORGY | - | - | - | - | 98,600 | 4,406 |
| SEA BASS | - | - | - | - | 65,300 | 6,884 |
| SEA TROUT OR WEAFFISH, GRAY | 300 | 22 | - | - | 273,800 | 17,106 |
| SHAD | 300 | 48 | - | - | - | - |
| SHARKS: | | | | | | |
| GRAYFISH | - | - | - | - | 25,200 | 994 |
| UNCLASSIFIED | - | - | - | - | 42,300 | 1,183 |
| SKATES | - | - | - | - | 2,000 | 80 |
| SPOT | 8,500 | 986 | - | - | - | - |
| STRIPED BASS | 787,000 | 88,931 | - | - | 20,300 | 3,263 |
| STURGEON | - | - | - | - | 12,600 | 2,628 |
| SUCKERS | 1,500 | 30 | - | - | - | - |
| SUNFISH | 100 | 8 | - | - | - | - |
| SWELLFISH | - | - | - | - | 10,700 | 241 |
| TAUTOG | - | - | - | - | 200 | 4 |
| TUNA, BLUEFIN | - | - | - | - | 100 | 12 |
| WHITE PERCH | 260,600 | 18,763 | - | - | - | - |
| WHITING | - | - | - | - | 65,200 | 1,715 |
| YELLOW PERCH | 19,900 | 1,851 | - | - | - | - |

(CONTINUED ON NEXT PAGE)

CHESAPEAKE FISHERIES

MARYLAND - CATCH BY GEAR, 1961 - Continued

| SPECIES | HAUL SEINES | | PURSE SEINES | | OTTER TRAWLS | |
|---|-------------|----------|--------------------|----------|----------------|----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| UNCLASSIFIED: FOR FOOD | - | - | - | - | 700 | \$56 |
| BAIT, REDUCTION, AND ANIMAL FOOD | - | - | - | - | 2,787,600 | 12,556 |
| CONCHS | - | - | - | - | 66,500 | 5,823 |
| SQUID | - | - | - | - | 34,500 | 2,295 |
| TERRAPIN | 900 | \$350 | - | - | - | - |
| TOTAL | 1,824,400 | 147,659 | 2,320,800 | \$39,060 | 4,291,600 | 171,916 |
| SPECIES | POUND NETS | | FYKE AND HOOP NETS | | POTS AND TRAPS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | 2,123,800 | \$29,308 | 2,200 | \$31 | - | - |
| BLUEFISH | 9,800 | 1,548 | - | - | - | - |
| BONITO | 100 | 21 | - | - | - | - |
| BUTTERFISH | 200 | 6 | - | - | - | - |
| CARP | 20,100 | 683 | 8,600 | 292 | - | - |
| CATFISH AND BULLHEADS | 70,600 | 4,095 | 108,900 | 9,792 | - | - |
| CRAPPIE | 700 | 58 | 1,700 | 141 | - | - |
| CROAKER | 10,700 | 3,060 | - | - | - | - |
| DRUM, BLACK | 800 | 51 | - | - | - | - |
| EELS, COMMON | 4,600 | 384 | 200 | 16 | 153,500 | \$12,274 |
| FLOUNDERS: FLUKE | 3,100 | 350 | - | - | - | - |
| UNCLASSIFIED | 18,500 | 1,591 | - | - | - | - |
| GIZZARD SHAD | 200 | 4 | 300 | 6 | - | - |
| HAKE, RED | - | - | - | - | 6,000 | 119 |
| HICKORY SHAD | 300 | 20 | - | - | - | - |
| HOGCHOKER | 16,500 | 297 | - | - | - | - |
| MACKEREL | 300 | 56 | - | - | - | - |
| MENHADEN | 1,166,500 | 18,984 | 500 | 8 | - | - |
| PIGFISH | - | - | - | - | 100 | 3 |
| PIKE OR PICKEREL | 100 | 20 | - | - | - | - |
| SEA BASS | - | - | - | - | 72,400 | 12,127 |
| SEA TROUT OR WEAKFISH, GRAY | 4,300 | 314 | - | - | - | - |
| SHAD | 186,600 | 29,987 | - | - | - | - |
| SPANISH MACKEREL | 1,000 | 37 | - | - | - | - |
| SPOT | 1,000 | 116 | - | - | - | - |
| STRIPED BASS | 358,300 | 40,468 | 4,000 | 452 | - | - |
| SUCKERS | - | - | 200 | 4 | - | - |
| SUNFISH | - | - | 1,000 | 85 | - | - |
| SWELLFISH | 15,600 | 348 | 300 | 7 | 439,600 | 9,671 |
| TAUTOG | - | - | - | - | 2,100 | 45 |
| WHITE PERCH | 157,500 | 11,340 | 65,200 | 4,694 | - | - |
| YELLOW PERCH | 2,200 | 205 | 32,500 | 3,022 | - | - |
| UNCLASSIFIED, FOR FOOD | 500 | 50 | - | - | - | - |
| CRABS, BLUE: HARD | - | - | - | - | 13,654,000 | 761,972 |
| SOFT AND PEELER | - | - | - | - | 257,100 | 56,618 |
| LOBSTERS, NORTHERN | - | - | - | - | 2,200 | 940 |
| TERRAPIN | 600 | 250 | - | - | - | - |
| TURTLES, SNAPPER | - | - | - | - | 58,800 | 5,876 |
| TOTAL | 4,196,100 | 143,673 | 286,600 | 18,550 | 14,845,800 | 861,645 |

| SPECIES | GILL NETS | | | | LINES | |
|--------------------------------------|-------------------------|---------|--------|-------|--------|-------|
| | ANCHOR, SET OR STAKE | | DRIFT | | HAND | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | 284,400 | \$3,923 | 26,500 | \$366 | - | - |
| BLUEFISH | 1,700 | 269 | 200 | 32 | 400 | \$88 |
| BONITO | - | - | - | - | 200 | 36 |
| BUTTERFISH | - | - | 100 | 14 | - | - |
| CARP | 14,900 | 506 | 8,600 | 299 | - | - |
| CATFISH AND BULLHEADS | 58,800 | 3,410 | 15,400 | 693 | - | - |
| COD | - | - | - | - | 700 | 88 |
| CRAPPIE | 100 | 8 | - | - | - | - |
| CROAKER | 300 | 66 | 100 | 29 | - | - |
| EELS, COMMON | 100 | 8 | - | - | - | - |
| FLOUNDERS, UNCLASSIFIED | 700 | 61 | - | - | - | - |
| GIZZARD SHAD | 10,700 | 224 | 1,300 | 27 | - | - |
| HICKORY SHAD | 14,000 | 938 | 1,500 | 101 | - | - |
| HOGCHOKER | 100 | 2 | - | - | - | - |
| KING WHITING OR "KINGFISH" | 200 | 13 | - | - | - | - |

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CHESAPEAKE FISHERIES

187

MARYLAND - CATCH BY GEAR, 1961 - Continued

| SPECIES | GILL NETS | | | | LINES | |
|---------------------------------------|-------------------------|---------|-----------|---------|--------|-------|
| | ANCHOR, SET OR STAKE | | DRIFT | | HAND | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| MACKEREL | - | - | 17,200 | \$2,472 | - | - |
| MENHADEN | 25,000 | \$400 | 2,700 | 80 | - | - |
| PIKE OR PICKEREL | 1,600 | 360 | - | - | - | - |
| SEA BASS | - | - | - | - | 800 | \$136 |
| SEA TROUT OR WEAKFISH, GRAY | 400 | 28 | - | - | - | - |
| SHAD | 1,169,000 | 185,871 | 456,700 | 72,616 | - | - |
| SHARKS, UNCLASSIFIED | 100 | 2 | - | - | - | - |
| SPOT | 100 | 12 | - | - | - | - |
| STRIPED BASS | 2,623,800 | 296,526 | 1,614,300 | 182,416 | - | - |
| SUCKERS | 100 | 2 | - | - | - | - |
| SUNFISH | 5,200 | 442 | - | - | - | - |
| WHITE PERCH | 615,900 | 44,342 | 217,600 | 15,667 | - | - |
| WHITING | - | - | 500 | 11 | - | - |
| YELLOW PERCH | 29,700 | 2,764 | 2,100 | 195 | - | - |
| UNCLASSIFIED, FOR FOOD | 900 | 100 | - | - | - | - |
| TURTLES, SNAPPER | - | - | - | - | 8,500 | 1,010 |
| TOTAL | 4,858,000 | 540,297 | 2,365,000 | 275,218 | 10,600 | 1,358 |

| SPECIES | LINES - CONTINUED | | | | DIP NETS | |
|---------------------------------|---------------------------|---------|-----------------|----------|----------|---------|
| | LONG OR SET WITH HOOKS | | TROT WITH BAITS | | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| CATFISH AND BULLHEADS | 28,100 | \$1,630 | - | - | - | - |
| COD | 663,100 | 58,132 | - | - | - | - |
| CRABS, BLUE: | - | - | - | - | - | - |
| HARD | - | - | 12,597,200 | \$62,849 | 25,900 | \$1,481 |
| SOFT AND PEELER | - | - | 94,400 | 21,525 | 37,900 | 8,642 |
| TURTLES, SNAPPER | - | - | - | - | 800 | 81 |
| TOTAL | 691,200 | 59,762 | 12,691,600 | 714,374 | 65,600 | 10,204 |

| SPECIES | SCRAPES | | DREDGES | | TONGS | |
|---------------------------|--------------|---------|-----------|-----------|-----------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| | CRABS, BLUE: | - | - | - | - | - |
| HARD | 167,900 | \$9,236 | 12,300 | \$677 | - | - |
| SOFT AND PEELER | 2,302,600 | 524,993 | - | - | - | - |
| CLAMS: | - | - | - | - | - | - |
| HARD, PUBLIC | - | - | 292,000 | 138,701 | 133,000 | \$63,330 |
| SOFT, PUBLIC | - | - | 4,692,000 | 1,231,082 | - | - |
| SURF | - | - | 70,900 | 5,779 | - | - |
| OYSTERS, MARKET: | - | - | - | - | - | - |
| PUBLIC: | - | - | - | - | - | - |
| SPRING | - | - | 870,500 | 663,474 | 2,859,900 | 2,004,307 |
| FALL | - | - | 1,040,400 | 844,936 | 4,171,300 | 3,154,011 |
| PRIVATE: | - | - | - | - | - | - |
| SPRING | - | - | 466,900 | 391,254 | 128,900 | 92,182 |
| FALL | - | - | 557,200 | 474,911 | 241,500 | 177,317 |
| TERRAPIN | 6,600 | 2,682 | - | - | - | - |
| TOTAL | 2,477,100 | 536,911 | 8,002,200 | 3,750,814 | 7,534,600 | 5,491,147 |

| SPECIES | RAKES | | BY HAND | |
|-----------------|-------------------------------|-------|---------|--------|
| | POUNDS | VALUE | POUNDS | VALUE |
| | CLAMS, HARD, PUBLIC | 500 | \$228 | 31,200 | $14,820 |
| TOTAL | 500 | 228 | 31,200 | 14,820 |

CHESAPEAKE FISHERIES

VIRGINIA

OPERATING UNITS BY GEAR, 1961

| ITEM | HAUL SEINES, COMMON | PURSE SEINES, MENHADEN | OTTER TRAWLS, FISH | POUND NETS | | FYKE AND HOOP NETS, FISH |
|--------------------------|---------------------------|------------------------------|--------------------------|------------|--------|--------------------------------|
| | | | | CRAB | FISH | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | |
| ON VESSELS | 31 | 409 | 334 | - | 21 | 8 |
| ON BOATS AND SHORE: | | | | | | |
| REGULAR | 393 | - | 3 | 328 | 690 | 141 |
| CASUAL | 209 | - | 1 | 117 | 333 | 81 |
| TOTAL | 633 | 409 | 338 | 445 | 1,044 | 230 |
| VESSELS, MOTOR | 11 | 26 | 85 | - | 8 | 3 |
| GROSS TONNAGE | 94 | 5,497 | 4,594 | - | 77 | 26 |
| BOATS: | | | | | | |
| MOTOR | 166 | 76 | 2 | 397 | 287 | 140 |
| OTHER | 153 | - | - | 17 | 252 | 23 |
| GEAR: | | | | | | |
| NUMBER | 177 | 26 | 87 | 2,787 | 643 | 796 |
| LENGTH, YARDS | 108,840 | 9,750 | - | - | - | - |
| YARDS AT MOUTH | - | - | 2,158 | - | - | - |

| ITEM | POTS AND TRAPS | | | | SLAT TRAPS | GILL NETS ANCHOR, SET OR STAKE |
|--------------------------|----------------|--------|--------|--------|------------|--------------------------------------|
| | CRAB | EEL | FISH | TURTLE | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | |
| ON VESSELS | 255 | 11 | 5 | - | - | 17 |
| ON BOATS AND SHORE: | | | | | | |
| REGULAR | 705 | 53 | 96 | 17 | - | 584 |
| CASUAL | 207 | 39 | 50 | 12 | 4 | 369 |
| TOTAL | 1,167 | 103 | 151 | 29 | 4 | 970 |
| VESSELS, MOTOR | 160 | 4 | 2 | - | - | 7 |
| GROSS TONNAGE | 1,138 | 33 | 22 | - | - | 50 |
| BOATS: | | | | | | |
| MOTOR | 677 | 70 | 103 | 13 | 2 | 629 |
| OTHER | 5 | 2 | 7 | 8 | 2 | 19 |
| GEAR: | | | | | | |
| NUMBER | 113,995 | 2,482 | 5,740 | 318 | 4 | 1,122 |
| SQUARE YARDS | - | - | - | - | - | 650,850 |

| ITEM | GILL NETS - CONTINUED | LINES | | | DIP NETS, COMMON | SCRAPES |
|--------------------------|--------------------------|--------|------------------------------|-----------------------|------------------------|---------|
| | DRIFT | HAND | LONG OR SET WITH HOOKS | TROT WITH BAITS | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | |
| ON VESSELS | 98 | 23 | - | - | - | 12 |
| ON BOATS AND SHORE: | | | | | | |
| REGULAR | 442 | 27 | 47 | 166 | 131 | 65 |
| CASUAL | 451 | 56 | 47 | 61 | 59 | 32 |
| TOTAL | 991 | 106 | 94 | 227 | 190 | 109 |
| VESSELS, MOTOR | 44 | 10 | - | - | - | 5 |
| GROSS TONNAGE | 486 | 115 | - | - | - | 43 |
| BOATS: | | | | | | |
| MOTOR | 446 | 51 | 90 | 210 | 167 | 77 |
| OTHER | 11 | 10 | 2 | - | 23 | - |
| GEAR: | | | | | | |
| NUMBER | 530 | 657 | 104 | 210 | 190 | 140 |
| SQUARE YARDS | 711,400 | - | - | - | - | - |
| HOOKS OR BAITS | - | 661 | 19,850 | 129,600 | - | - |
| YARDS AT MOUTH | - | - | - | - | - | 231 |

(CONTINUED ON NEXT PAGE)

CHESAPEAKE FISHERIES

189

VIRGINIA - OPERATING UNITS BY GEAR, 1961 - Continued

| ITEM | DREDGES | | | | TONGS | |
|--------------------------|---------|--------|-------------------|---------|--------|--------|
| | CLAM | CRAB | OYSTER, COMMON | SCALLOP | OYSTER | OTHER |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | |
| ON VESSELS | 16 | 522 | 779 | 86 | 508 | 54 |
| ON BOATS AND SHORE: | | | | | | |
| REGULAR | 38 | 55 | 309 | - | 1,624 | 511 |
| CASUAL | 11 | 41 | 148 | - | 923 | 230 |
| TOTAL | 65 | 618 | 1,236 | 86 | 3,060 | 795 |
| VESSELS, MOTOR | 6 | 190 | 284 | 8 | 239 | 25 |
| GROSS TONNAGE | 75 | 2,912 | 3,875 | 679 | 1,842 | 180 |
| BOATS: | | | | | | |
| MOTOR | 31 | 56 | 232 | - | 1,848 | 463 |
| OTHER | - | - | 1 | - | 32 | 49 |
| GEAR: | | | | | | |
| NUMBER | 37 | 450 | 700 | 16 | 3,060 | 795 |
| YARDS AT MOUTH | 30 | 764 | 833 | 56 | - | - |

| ITEM | RAKES | | BY HAND | | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|--------------------------|--------|--------|---------|--------|--|
| | OYSTER | OTHER | OYSTER | OTHER | |
| | NUMBER | NUMBER | NUMBER | NUMBER | |
| FISHERMEN: | | | | | |
| ON VESSELS | - | 10 | - | - | 2,576 |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | 26 | 429 | 120 | 300 | 3,806 |
| CASUAL | 14 | 245 | 33 | 93 | 2,711 |
| TOTAL | 42 | 684 | 153 | 393 | 9,093 |
| VESSELS, MOTOR | - | 3 | - | - | 820 |
| GROSS TONNAGE | - | 26 | - | - | 18,930 |
| BOATS: | | | | | |
| MOTOR | 23 | 392 | 35 | 87 | 3,704 |
| OTHER | 7 | 65 | 12 | 25 | 641 |
| GEAR, NUMBER | 42 | 684 | - | - | - |

VIRGINIA - CATCH BY GEAR, 1961

| SPECIES | HAUL SEINES | | PURSE SEINES | | OTTER TRAWLS | |
|------------------------|-------------|---------|--------------|-------|--------------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALDWIVES | 131,200 | \$2,534 | - | - | - | - |
| BLUEFISH | 115,900 | 16,887 | - | - | 32,200 | \$4,945 |
| BONITO | 11,600 | 1,615 | - | - | - | - |
| BOWFIN | 500 | 10 | - | - | - | - |
| BULLHEADS | 169,000 | 10,309 | - | - | - | - |
| BUTTERFISH | 222,500 | 19,823 | - | - | 939,400 | 81,857 |
| CABIO | 800 | 121 | - | - | - | - |
| CARP | 168,300 | 4,805 | - | - | - | - |
| CATFISH | 117,100 | 8,084 | - | - | - | - |
| COD | - | - | - | - | 500 | 34 |
| CROAKER | 1,174,700 | 218,504 | - | - | 131,200 | 23,519 |
| DRUM: | | | | | | |
| BLACK | 15,600 | 842 | - | - | 700 | 48 |
| RED | 5,700 | 570 | - | - | - | - |
| EELS, COMMON | 30,900 | 2,952 | - | - | - | - |
| FLOUNDERS: | | | | | | |
| BLACKBACK | - | - | - | - | 400 | 41 |
| FLUKE | 87,600 | 16,221 | - | - | 1,895,300 | 312,397 |
| UNCLASSIFIED | 14,500 | 2,056 | - | - | 4,000 | 530 |
| GIZZARD SHAD | 32,200 | 375 | - | - | - | - |
| HADDOCK | - | - | - | - | 100 | 6 |
| HAKE: | | | | | | |
| RED | - | - | - | - | 10,200 | 333 |
| WHITE | - | - | - | - | 6,400 | 640 |
| HARVESTFISH | 91,800 | 8,744 | - | - | 50,700 | 4,900 |
| HERRING, SEA | - | - | - | - | 1,300 | 13 |
| HICKORY SHAD | 3,300 | 161 | - | - | - | - |

(CONTINUED ON NEXT PAGE)

CHESAPEAKE FISHERIES

VIRGINIA - CATCH BY GEAR, 1961 - Continued

| SPECIES | HAUL SEINES | | PURSE SEINES | | OTTER TRAWLS | |
|--|-------------|---------|--------------|-------------|--------------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| KING MACKEREL | 2,000 | \$319 | - | - | - | - |
| KING WHITING OR "KINGFISH" | 12,700 | 954 | - | - | 46,700 | \$3,414 |
| MACKEREL | - | - | - | - | 4,700 | 770 |
| MENHADEN | 14,249,700 | 213,357 | 259,943,000 | \$2,547,445 | 100 | 2 |
| MULLET | 9,100 | 783 | - | - | 200 | 16 |
| PIGFISH | - | - | - | - | 200 | 14 |
| POLLOCK | - | - | - | - | 400 | 32 |
| POMPANO | 100 | 12 | - | - | - | - |
| SCUP OR PORGY | - | - | - | - | 11,255,800 | 655,118 |
| SEA BASS | - | - | - | - | 3,018,600 | 503,050 |
| SEA TROUT OR WEAKFISH: | | | | | | |
| GRAY | 516,300 | 74,298 | - | - | 142,100 | 19,995 |
| SPOTTED | 24,400 | 4,930 | - | - | - | - |
| SHAD | 2,300 | 350 | - | - | 1,700 | 120 |
| SHARKS: | | | | | | |
| GRAYFISH | 5,900 | 177 | - | - | 10,100 | 330 |
| UNCLASSIFIED | - | - | - | - | 400 | 19 |
| SPANISH MACKEREL | 400 | 64 | - | - | - | - |
| SPOT | 467,000 | 46,074 | - | - | 900 | 46 |
| STRIPED BASS | 583,700 | 85,191 | - | - | 1,600 | 199 |
| STURGEON | 2,400 | 543 | - | - | 7,100 | 1,490 |
| SUCKERS | 1,200 | 76 | - | - | - | - |
| SWELLFISH | 148,700 | 4,368 | - | - | 19,300 | 553 |
| TAUTOG | 500 | 26 | - | - | - | - |
| TILEFISH | - | - | - | - | 29,000 | 3,030 |
| WHITE PERCH | 120,200 | 9,562 | - | - | 900 | 32 |
| WHITING | - | - | - | - | 401,700 | 12,131 |
| YELLOW PERCH | 800 | 80 | - | - | - | - |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | 7,500 | 435 | - | - | 42,300 | 4,012 |
| BAIT, REDUCTION, AND ANIMAL FOOD | 12,000 | 130 | - | - | 935,600 | 13,305 |
| LOBSTERS, NORTHERN | - | - | - | - | 4,300 | 1,915 |
| CONCHS | - | - | - | - | 57,600 | 4,486 |
| SQUID | - | - | - | - | 313,700 | 16,191 |
| TERRAPIN | 4,100 | 1,683 | - | - | - | - |
| TURTLES, LOGGERHEAD | 600 | 6 | - | - | - | - |
| TOTAL | 18,564,800 | 758,251 | 259,943,000 | 2,547,445 | 19,369,400 | 1,669,553 |

| SPECIES | POUND NETS | | FYKE AND HOOP NETS | | POTS AND TRAPS | |
|--------------------------------------|------------|-----------|--------------------|----------|----------------|----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | 14,604,200 | \$269,937 | 649,500 | \$12,668 | - | - |
| BLUEFISH | 142,800 | 21,459 | - | - | - | - |
| BONITO | 11,300 | 1,498 | - | - | - | - |
| BULLHEADS | 36,200 | 2,188 | 365,200 | 29,610 | 955,900 | \$57,980 |
| BUTTERFISH | 428,100 | 37,058 | 300 | 27 | - | - |
| CABO | 500 | 75 | - | - | - | - |
| CARP | 17,000 | 478 | 54,500 | 1,427 | - | - |
| CATFISH | 3,600 | 2,165 | 231,200 | 15,622 | 449,500 | 30,903 |
| CROAKER | 1,686,800 | 305,432 | 2,200 | 275 | - | - |
| DRUM: | | | | | | |
| BLACK | 175,200 | 7,341 | - | - | - | - |
| RED | 2,900 | 290 | - | - | - | - |
| EELS, COMMON | 26,600 | 2,374 | 26,700 | 2,605 | 140,500 | 22,468 |
| FLOUNDERS: | | | | | | |
| BLACKBACK | 900 | 76 | - | - | - | - |
| FLUKE | 205,500 | 36,947 | - | - | - | - |
| UNCLASSIFIED | 9,600 | 1,369 | - | - | - | - |
| GIZZARD SHAD | 22,800 | 231 | 42,100 | 523 | - | - |
| HARVESTFISH | 111,200 | 10,594 | - | - | - | - |
| HERRING, SEA | 900 | 10 | - | - | - | - |
| HICKORY SHAD | 20,700 | 1,035 | 7,500 | 364 | - | - |
| KING MACKEREL | 16,000 | 2,641 | - | - | - | - |
| KING WHITING OR "KINGFISH" | 124,300 | 10,907 | - | - | - | - |
| MACKEREL | 1,100 | 180 | - | - | - | - |
| MENHADEN | 20,595,500 | 321,413 | 300,200 | 4,810 | - | - |
| MULLET | 5,200 | 421 | 4,600 | 360 | - | - |
| PIGFISH | 400 | 33 | - | - | - | - |
| POMPANO | 100 | 12 | - | - | - | - |
| SCUP OR PORGY | 100 | 7 | - | - | - | - |
| SEA BASS | 400 | 77 | - | - | 188,900 | 30,871 |
| SEA TROUT OR WEAKFISH: | | | | | | |
| GRAY | 506,500 | 73,010 | 1,000 | 134 | - | - |
| SPOTTED | 49,200 | 9,900 | - | - | - | - |
| SHAD | 645,800 | 107,690 | 21,000 | 3,512 | - | - |
| SHARKS, GRAYFISH | 12,600 | 378 | - | - | - | - |
| SPADEFISH | 500 | 30 | - | - | - | - |

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CHESAPEAKE FISHERIES

191

VIRGINIA - CATCH BY GEAR, 1961 - Continued

| SPECIES | POUND NETS | | FYKE AND HOOP NETS | | POTS AND TRAPS | |
|--|-------------------|------------------|--------------------|----------------|-------------------|------------------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| SPANISH MACKEREL | 122,200 | \$19,768 | - | - | - | - |
| SPOT | 556,100 | 54,054 | 8,300 | \$772 | - | - |
| STRIPED BASS | 455,500 | 74,415 | 99,100 | 16,415 | - | - |
| STURGEON | 1,300 | 374 | 700 | 190 | - | - |
| SUCKERS | 900 | 62 | 2,400 | 159 | - | - |
| SMELLFISH | 523,400 | 14,025 | 2,100 | 61 | - | - |
| TAUTOG | 600 | - | - | - | - | - |
| WHITE PERCH | 135,000 | 10,361 | 167,600 | 14,379 | - | - |
| YELLOW PERCH | 400 | 40 | 4,100 | 430 | - | - |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | 37,900 | 2,356 | 300 | 20 | - | - |
| BAIT, REDUCTION, AND ANIMAL FOOD | 469,900 | 7,629 | - | - | - | - |
| CRABS, BLUE: | | | | | | |
| HARD | 130,500 | 6,080 | - | - | 31,605,400 | \$1,363,743 |
| SOFT AND PEELER | 678,100 | 229,062 | - | - | 360,900 | 103,517 |
| LOBSTERS, NORTHERN | - | - | - | - | 800 | 300 |
| CONCHS | - | - | - | - | 46,500 | 3,488 |
| SQUID | 300 | 21 | - | - | - | - |
| TERRAPIN | - | - | 3,200 | 1,120 | 1,700 | 595 |
| TURTLES: | | | | | | |
| LOGGERHEAD | 500 | 5 | - | - | - | - |
| SNAPPER | - | - | 1,600 | 235 | 63,400 | 9,120 |
| TOTAL | 42,807,100 | 1,647,793 | 1,995,400 | 105,716 | 33,813,500 | 1,642,985 |

| SPECIES | SLAT TRAPS | | GILL NETS | | | |
|--|---------------|------------|----------------------|----------------|------------------|----------------|
| | | | ANCHOR, SET OR STAKE | | DRIFT | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEEVIES | 25,300 | \$506 | 32,800 | \$600 | 82,800 | \$1,617 |
| BLUEFISH | - | - | 300 | 62 | 200 | 30 |
| BULLHEADS | - | - | 2,900 | 161 | - | - |
| BUTTERFISH | - | - | - | - | 700 | 108 |
| CARP | - | - | 1,300 | 37 | - | - |
| CATFISH | - | - | 5,500 | 362 | - | - |
| CROAKER | - | - | 37,800 | 7,070 | 44,400 | 8,720 |
| FLOUNDERS, FLUKE | - | - | 100 | 20 | - | - |
| GIZZARD SHAD | - | - | 300 | 3 | - | - |
| HERRING, SEA | - | - | - | - | 1,700 | 17 |
| HICKORY SHAD | 100 | 4 | 16,500 | 796 | 6,000 | 270 |
| MACKEREL | - | - | - | - | 381,500 | 60,026 |
| MENHADEN | - | - | - | - | 12,600 | 126 |
| MULLET | 100 | 7 | 3,000 | 257 | 8,300 | 671 |
| SEA TROUT OR WEAKFISH, GRAY | - | - | 5,800 | 818 | 8,000 | 1,161 |
| SHAD | - | - | 485,900 | 84,650 | 172,500 | 25,650 |
| SHARKS, GRAYFISH | - | - | - | - | 409,600 | 12,324 |
| SPOT | - | - | - | - | 53,600 | 5,045 |
| STRIPED BASS | 100 | 16 | 695,500 | 110,889 | 6,100 | 900 |
| SUCKERS | - | - | 500 | 35 | 200 | 12 |
| WHITE PERCH | - | - | 6,900 | 700 | 2,300 | 190 |
| WHITING | - | - | - | - | 5,500 | 128 |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | - | - | 5,000 | 260 | - | - |
| BAIT, REDUCTION, AND ANIMAL FOOD | - | - | - | - | 16,600 | 268 |
| TOTAL | 25,600 | 533 | 1,393,600 | 215,445 | 1,212,600 | 117,263 |

| SPECIES | LINES | | | | | |
|--------------------------------------|--------|-------|------------------------|---------|-----------------|-------|
| | HAND | | LONG OR SET WITH HOOKS | | TROT WITH BAITS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BLUEFISH | 2,100 | \$356 | - | - | - | - |
| BULLHEADS | - | - | 37,000 | \$2,242 | - | - |
| CABIO | 19,400 | 1,713 | - | - | - | - |
| CATFISH | - | - | 68,000 | 4,446 | - | - |
| COD | - | - | 29,900 | 2,797 | - | - |
| CROAKER | 5,200 | 1,100 | - | - | - | - |
| DRUM: | | | | | | |
| BLACK | 56,600 | 2,224 | - | - | - | - |
| RED | 3,400 | 248 | - | - | - | - |
| EELS, COMMON | - | - | 100 | 11 | - | - |
| FLOUNDERS, FLUKE | 4,800 | 695 | - | - | - | - |
| KING WHITING OR "KINGFISH" | 5,700 | 325 | - | - | - | - |

(CONTINUED ON NEXT PAGE)

CHESAPEAKE FISHERIES

VIRGINIA - CATCH BY GEAR, 1961 - Continued

| SPECIES | LINES | | | | | |
|----------------------------------|---------|--------|------------------------|---------|-----------------|-----------|
| | HAND | | LONG OR SET WITH HOOKS | | TROT WITH BAITS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| MULLET | 2,300 | \$237 | - | - | - | - |
| SCUP OR PORGY | 400 | 42 | - | - | - | - |
| SEA BASS | 2,700 | 436 | - | - | - | - |
| SEA TROUT OR WEAKFISH: | | | | | | |
| GRAY | 11,700 | 1,470 | - | - | - | - |
| SPOTTED | 200 | 50 | - | - | - | - |
| SPOT | 4,500 | 746 | - | - | - | - |
| STRIPED BASS | 600 | 78 | 11,600 | \$1,955 | - | - |
| SWELLFISH | 100 | 2 | - | - | - | - |
| WHITING | 100 | 3 | - | - | - | - |
| UNCLASSIFIED, FOR FOOD | 600 | 55 | - | - | - | - |
| CRABS, BLUE: | | | | | | |
| HARD | - | - | - | - | 3,065,400 | \$140,535 |
| SOFT AND PEELER | - | - | - | - | 20,900 | 6,160 |
| TURTLES, SNAPPER | 60,400 | 8,670 | 6,000 | 860 | - | - |
| TOTAL | 181,000 | 18,450 | 152,600 | 12,311 | 3,086,300 | 146,695 |

| SPECIES | DIP NETS | | SCRAPES | | DREDGES | |
|------------------------------|--------------|---------|---------|---------|------------|------------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| | CRABS, BLUE: | | | | | |
| HARD | 37,400 | \$9,485 | 55,000 | \$1,700 | 9,082,500 | \$402,985 |
| SOFT AND PEELER | 97,400 | 29,720 | 177,900 | 44,542 | - | - |
| LOBSTERS, NORTHERN | - | - | - | - | 9,200 | 4,260 |
| CLAMS: | | | | | | |
| HARD: | | | | | | |
| PUBLIC | - | - | - | - | 247,600 | 120,838 |
| PRIVATE | - | - | - | - | 139,600 | 67,947 |
| SOFT, PUBLIC | - | - | - | - | 2,700 | 884 |
| CONCHS | - | - | - | - | 31,300 | 2,200 |
| OYSTERS, MARKET, PRIVATE: | | | | | | |
| SPRING | - | - | - | - | 7,316,300 | 5,959,578 |
| FALL | - | - | - | - | 6,337,600 | 5,070,540 |
| SCALLOPS, SEA | - | - | - | - | 317,700 | 130,770 |
| TERRAPIN | 200 | 70 | - | - | - | - |
| TOTAL | 135,000 | 39,275 | 232,900 | 46,242 | 23,484,700 | 11,760,002 |

| SPECIES | TONGS | | RAKES | | BY HAND | |
|-------------------|--|-----------|---------|----------|---------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| | CRABS, BLUE, SOFT AND PEELER | - | - | - | - | 33,000 | $9,120 |
| CLAMS, HARD: | | | | | | |
| PUBLIC | 815,600 | \$375,207 | 48,900 | \$22,325 | 120,000 | 54,000 |
| PRIVATE | 398,200 | 183,384 | 66,200 | 30,050 | 25,000 | 11,250 |
| OYSTERS, MARKET: | | | | | | |
| PUBLIC: | | | | | | |
| SPRING | 2,302,000 | 1,913,030 | 9,000 | 6,480 | 14,000 | 10,080 |
| FALL | 831,900 | 689,213 | 15,500 | 11,160 | 23,000 | 16,560 |
| PRIVATE: | | | | | | |
| SPRING | 173,500 | 143,213 | - | - | 3,600 | 2,592 |
| FALL | 129,500 | 104,189 | - | - | 7,600 | 5,472 |
| TOTAL | 4,650,700 | 3,408,236 | 139,600 | 70,015 | 226,200 | 109,074 |



SHAD

CHESAPEAKE FISHERIES

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CHESAPEAKE STATES - CATCH BY WATERS, 1961

| SPECIES | MARYLAND | | | | VIRGINIA | |
|--|-----------|---------|----------------|-----------|------------|---------|
| | OCEAN 1/ | | CHESAPEAKE BAY | | OCEAN 1/ | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | - | - | 2,444,400 | \$33,732 | 8,200 | \$92 |
| BLUEFISH | 4,000 | \$299 | 15,000 | 2,370 | 39,300 | 6,145 |
| BONITO | 200 | 36 | 100 | 21 | 100 | 9 |
| BUTTERFISH | 78,600 | 4,949 | 200 | 8 | 942,200 | 82,153 |
| CARP | 100 | 6 | - | - | - | - |
| CARP | - | - | 606,500 | 20,619 | - | - |
| CATFISH AND BULLHEADS | - | - | 436,900 | 25,452 | - | - |
| COD | 788,600 | 70,554 | - | - | 30,400 | 2,631 |
| CRAPPIE | - | - | 2,500 | 207 | - | - |
| CROAKER | 100 | 23 | 48,800 | 13,957 | 152,500 | 27,984 |
| DRUM: | | | | | | |
| BLACK | 100 | 5 | 800 | 51 | 25,100 | 1,160 |
| RED | - | - | - | - | 1,000 | 100 |
| EELS, COMMON | 300 | 7 | 159,100 | 12,728 | 7,500 | 750 |
| FLOUNDERS: | | | | | | |
| BLACKBACK | 2,600 | 179 | - | - | 500 | 47 |
| FLUKE | 535,900 | 93,125 | 3,100 | 350 | 1,958,800 | 326,566 |
| UNCLASSIFIED | - | - | 19,300 | 1,661 | 4,200 | 558 |
| GIZZARD SHAD | - | - | 15,000 | 313 | - | - |
| HARDOCK | - | - | - | - | 100 | 6 |
| HAKE: | | | | | | |
| RED | 16,900 | 290 | - | - | 10,200 | 333 |
| WHITE | 500 | 10 | - | - | 8,400 | 640 |
| HARVESTFISH | - | - | - | - | 50,700 | 4,900 |
| HERRING, SEA | 6,900 | 125 | - | - | 3,900 | 40 |
| HICKORY SHAD | - | - | 15,800 | 1,059 | - | - |
| HOGCHOKER | - | - | 16,600 | 299 | - | - |
| KING WHITING OR "KINGFISH" | 19,300 | 1,287 | - | - | 54,800 | 3,971 |
| MACKEREL | 16,500 | 2,708 | 300 | 56 | 385,300 | 60,816 |
| MENHADEN | 2,700 | 80 | 3,575,000 | 59,147 | 98,516,500 | 965,738 |
| MULLET | - | - | - | - | 4,200 | 376 |
| PIGFSH | 700 | 16 | - | - | 200 | 14 |
| PIKE OR PICKEREL | - | - | 1,900 | 360 | - | - |
| POLLOCK | - | - | - | - | 400 | 32 |
| SAND PERCH | 300 | 14 | 200 | 8 | - | - |
| SCUP OR PORGY | 98,600 | 4,408 | - | - | 11,256,300 | 655,167 |
| SEA BASS | 136,500 | 19,147 | - | - | 3,209,900 | 534,349 |
| SEA TROUT OR WEAKFISH: | | | | | | |
| GRAY | 274,100 | 17,127 | 4,700 | 343 | 154,700 | 21,435 |
| SPOTTED | - | - | - | - | 100 | 20 |
| SHAD | - | - | 1,814,600 | 288,522 | 5,100 | 985 |
| SHARKS: | | | | | | |
| GRAYFISH | 25,200 | 994 | - | - | 420,000 | 12,663 |
| UNCLASSIFIED | 42,400 | 1,185 | - | - | 400 | 19 |
| SKATES | 2,000 | 80 | - | - | - | - |
| SPANISH MACKEREL | - | - | 200 | 37 | - | - |
| SPOT | - | - | 9,600 | 1,114 | 52,400 | 5,309 |
| STRIPED BASS | 20,600 | 3,336 | 5,387,100 | 608,740 | 5,600 | 707 |
| TURGEON | 12,600 | 2,628 | - | - | 7,900 | 1,570 |
| SUCKERS | - | - | 1,800 | 36 | - | - |
| SUNFISH | - | - | 6,300 | 535 | - | - |
| SWELLFISH | 10,700 | 241 | 455,700 | 10,026 | 161,000 | 3,536 |
| TAUTOG | 2,300 | 49 | - | - | - | - |
| TILEFISH | - | - | - | - | 29,000 | 3,030 |
| TUNA, BLUEFIN | 100 | 12 | - | - | - | - |
| WHITE PERCH | 300 | 18 | 1,316,500 | 94,788 | 1,200 | 77 |
| WHITING | 65,700 | 1,726 | - | - | 407,300 | 12,262 |
| YELLOW PERCH | - | - | 86,400 | 8,037 | - | - |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | 700 | 56 | 1,400 | 150 | 51,700 | 4,657 |
| BAIT, REDUCTION, AND ANIMAL FOOD | 2,787,600 | 12,558 | - | - | 1,119,300 | 16,286 |
| CRABS, BLUE: | | | | | | |
| HARD | 194,100 | 10,676 | 26,464,200 | 1,455,539 | 4,923,300 | 189,708 |
| SOFT AND PEELER | 1,400 | 319 | 2,690,600 | 613,459 | 203,100 | 59,079 |
| LOBSTERS, NORTHERN | 2,200 | 940 | - | - | 14,300 | 6,475 |
| CLAMS: | | | | | | |
| HARD: | | | | | | |
| PUBLIC | 456,700 | 217,079 | - | - | 804,800 | 376,208 |
| PRIVATE | - | - | - | - | 364,900 | 171,301 |
| SOFT, PUBLIC | - | - | 4,692,000 | 1,231,082 | - | - |
| SIFT | 70,900 | 5,779 | - | - | - | - |
| CONCHS | 66,500 | 5,823 | - | - | 58,600 | 4,561 |
| OYSTERS, MARKET: | | | | | | |
| PUBLIC: | | | | | | |
| SPRING | - | - | 3,730,400 | 2,667,781 | 32,000 | 23,040 |
| FALL | - | - | 5,211,700 | 3,998,947 | 54,000 | 38,680 |
| PRIVATE: | | | | | | |
| SPRING | 184,000 | 201,297 | 411,800 | 282,139 | 770,100 | 554,472 |
| FALL | 175,100 | 204,606 | 623,600 | 447,622 | 1,367,200 | 984,384 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CHESAPEAKE FISHERIES

CHESAPEAKE STATES - CATCH BY WATERS, 1961 - Continued

| SPECIES | MARYLAND | | | | VIRGINIA | |
|--|----------------------|-----------|----------------|------------|----------------|-----------|
| | OCEAN 1/ | | CHESAPEAKE BAY | | OCEAN 1/ | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| SCALLOPS, SEA | - | - | - | - | 317,700 | \$130,770 |
| SQUID | 34,600 | \$2,295 | - | - | 314,000 | 16,212 |
| TERRAPIN | - | - | 6,100 | \$3,282 | 3,000 | 1,498 |
| TURTLES, SNAPPER | - | - | 68,100 | 6,967 | - | - |
| TOTAL | 6,143,600 | 686,092 | 60,348,300 | 11,891,564 | 128,314,400 | 5,313,921 |
| SPECIES | VIRGINIA - CONTINUED | | TOTAL | | | |
| | CHESAPEAKE BAY | | OCEAN 1/ | | CHESAPEAKE BAY | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEMIVES | 15,517,600 | \$287,770 | 8,200 | \$92 | 17,962,000 | \$321,502 |
| BLUEFISH | 254,200 | 37,594 | 43,300 | 6,444 | 269,200 | 39,964 |
| BONITO | 22,600 | 3,104 | 300 | 45 | 22,900 | 3,125 |
| BOWFIN | 500 | 10 | - | - | 500 | 10 |
| BUTTERFISH | 648,600 | 56,750 | 1,021,000 | 87,102 | 649,000 | 56,788 |
| CABIO | 20,700 | 1,909 | 100 | 6 | 20,700 | 1,909 |
| CARP | 241,100 | 6,747 | - | - | 847,600 | 27,366 |
| CATFISH AND BULLHEADS | 2,469,100 | 164,072 | - | - | 2,908,000 | 189,524 |
| COD | - | - | 819,200 | 73,385 | - | - |
| CRAPPIE | - | - | - | - | 2,500 | 207 |
| CROAKER | 2,929,800 | 536,636 | 152,600 | 28,007 | 2,978,600 | 550,593 |
| DRUM: | | | | | | |
| BLACK | 223,000 | 9,295 | 25,200 | 1,165 | 223,600 | 9,346 |
| RED | 11,008 | 1,008 | 1,000 | 100 | 11,000 | 1,008 |
| EELS, COMMON | 217,300 | 29,660 | 7,800 | 757 | 376,400 | 42,388 |
| FLOUNDERS: | | | | | | |
| BLACKBACK | 800 | 70 | 3,100 | 226 | 600 | 70 |
| FLUKE | 234,500 | 41,714 | 2,494,700 | 419,691 | 237,600 | 42,064 |
| UNCLASSIFIED | 23,900 | 3,397 | 4,200 | 558 | 43,200 | 5,058 |
| GIZZARD SHAD | 97,400 | 1,132 | - | - | 112,400 | 1,445 |
| HADDOCK | - | - | 100 | 6 | - | - |
| HAKE: | | | | | | |
| RED | - | - | 27,100 | 623 | - | - |
| WHITE | - | - | 8,900 | 650 | - | - |
| HARVESTFISH | 203,000 | 19,338 | 50,700 | 4,900 | 203,000 | 19,338 |
| HERRING, SEA | - | - | 10,800 | 165 | - | - |
| HICKORY SHAD | 54,100 | 2,630 | - | - | 69,900 | 3,689 |
| HOGCHOKER | - | - | - | - | 16,600 | 299 |
| KING MACKEREL | 16,000 | 2,960 | - | - | 16,000 | 2,960 |
| KING WHITING OR "KINGFISH" | 134,600 | 11,629 | 74,100 | 5,258 | 134,600 | 11,629 |
| MACKEREL | 000 | 160 | 404,800 | 63,524 | 1,300 | 216 |
| MENHADEN | 196,584,600 | 2,121,415 | 98,519,200 | 965,818 | 200,159,600 | 2,160,562 |
| MULLET | 28,600 | 2,376 | 4,200 | 376 | 26,600 | 2,376 |
| PIGFISH | 400 | 33 | 900 | 30 | 400 | 33 |
| PIKE OR PICKEREL | - | - | - | - | 1,900 | 380 |
| POLLOCK | - | - | 400 | 32 | - | - |
| POMPANO | 200 | 24 | - | - | 200 | 24 |
| SAND PERCH | - | - | 300 | 14 | 200 | 8 |
| SCUP OR PORGY | - | - | 11,354,900 | 659,575 | - | - |
| SEA BASS | 700 | 95 | 3,348,400 | 553,496 | 700 | 95 |
| SEA TROUT OR WEAKFISH: | | | | | | |
| GRAY | 1,038,700 | 149,451 | 428,800 | 38,562 | 1,043,400 | 149,794 |
| SPOTTED | 73,700 | 14,860 | 100 | 20 | 73,700 | 14,860 |
| SHAD | 1,324,100 | 220,987 | 5,100 | 965 | 3,138,700 | 509,509 |
| SHARKS: | | | | | | |
| GRAYFISH | 16,200 | 546 | 445,200 | 13,657 | 16,200 | 546 |
| UNCLASSIFIED | - | - | 42,800 | 1,204 | - | - |
| SKATES | - | - | 2,000 | 60 | - | - |
| SPADEFISH | 500 | 30 | - | - | 500 | 30 |
| SPANISH MACKEREL | 122,600 | 19,832 | - | - | 122,600 | 19,869 |
| SPOT | 1,131,500 | 110,153 | 52,400 | 5,309 | 1,141,100 | 111,267 |
| STRIPED BASS | 1,848,400 | 289,351 | 26,200 | 4,043 | 7,235,500 | 898,091 |
| STURGEON | 3,600 | 1,027 | 20,500 | 4,198 | 3,600 | 1,027 |
| SUCKERS | 5,200 | 344 | - | - | 7,000 | 380 |
| SUNFISH | - | - | - | - | 6,300 | 535 |
| SMELLFISH | 532,600 | 15,504 | 171,700 | 3,777 | 988,300 | 25,530 |
| TAUTOG | 1,100 | 60 | 2,300 | 49 | 1,100 | 60 |
| TILEFISH | - | - | 29,000 | 3,030 | - | - |
| TUNA, BLUEFIN | - | - | 100 | 12 | - | - |
| WHITE PERCH | 431,700 | 35,147 | 1,500 | 95 | 1,748,200 | 129,935 |
| WHITING | - | - | 473,000 | 13,988 | - | - |
| YELLOW PERCH | 5,300 | 550 | - | - | 91,700 | 8,587 |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | 41,900 | 2,481 | 52,400 | 4,713 | 43,300 | 2,631 |
| BAIT, REDUCTION, AND ANIMAL FOOD | 314,800 | 5,246 | 3,906,900 | 28,844 | 314,800 | 5,246 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CHESAPEAKE FISHERIES

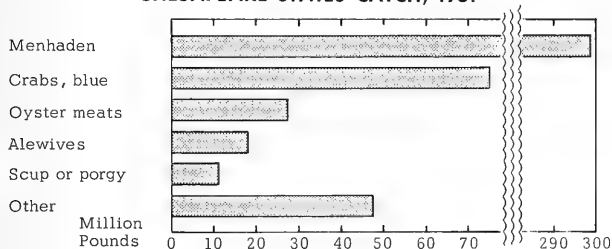
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CHESAPEAKE STATES - CATCH BY WATERS, 1961 - Continued

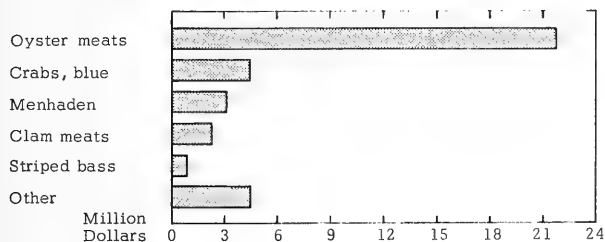
| SPECIES | VIRGINIA - CONTINUED | | TOTAL | | | |
|-----------------------------|----------------------|-------------|-------------|-----------|----------------|-------------|
| | CHESAPEAKE BAY | | OCEAN 1/ | | CHESAPEAKE BAY | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| CRABS, BLUE: | | | | | | |
| HARD | 39,052,900 | \$1,754,820 | 5,117,400 | \$200,384 | 65,517,100 | \$3,210,359 |
| SOFT AND PEELER | 1,365,100 | 363,062 | 204,500 | 59,398 | 4,055,700 | 976,521 |
| LOBSTERS, NORTHERN. | - | - | 16,500 | 7,415 | - | - |
| CLAMS: | | | | | | |
| HARD: | | | | | | |
| PUBLIC | 427,500 | 196,162 | 1,261,500 | 593,287 | 427,500 | 196,162 |
| PRIVATE | 264,100 | 121,330 | 364,900 | 171,301 | 264,100 | 121,330 |
| SOFT, PUBLIC | 2,700 | 884 | - | - | 4,694,700 | 1,231,966 |
| SURF | - | - | 70,900 | 5,779 | - | - |
| CONCHS | 76,800 | 5,613 | 125,100 | 10,384 | 76,800 | 5,613 |
| OYSTERS, MARKET: | | | | | | |
| PUBLIC: | | | | | | |
| SPRING | 2,293,000 | 1,906,550 | 32,000 | 23,040 | 6,023,400 | 4,574,331 |
| FALL | 616,400 | 678,053 | 54,000 | 38,680 | 6,026,100 | 4,677,000 |
| PRIVATE: | | | | | | |
| SPRING | 6,723,300 | 5,550,911 | 954,100 | 755,769 | 7,135,100 | 5,833,050 |
| FALL | 5,107,500 | 4,195,817 | 1,542,300 | 1,188,990 | 5,731,100 | 4,643,439 |
| SCALLOPS, SEA | - | - | 317,700 | 130,770 | - | - |
| SQUID | - | - | 348,600 | 16,507 | - | - |
| TERRAPIN | 6,200 | 2,170 | 3,000 | 1,496 | 14,300 | 5,452 |
| TURTLES: | | | | | | |
| LOGGERHEAD | 1,100 | 11 | - | - | 1,100 | 11 |
| SNAPPER | 131,400 | 18,685 | - | - | 199,500 | 25,852 |
| TOTAL | 283,099,600 | 19,001,365 | 134,458,000 | 6,200,013 | 343,447,900 | 30,692,929 |

1/ INCLUDES BAYS AND CREEKS, EXCLUSIVE OF CHESAPEAKE BAY, WHICH DRAIN INTO THE ATLANTIC OCEAN.

CHESAPEAKE STATES CATCH, 1961



VALUE OF CHESAPEAKE STATES CATCH, 1961



CHESAPEAKE FISHERIES

POTOMAC RIVER SHAD AND ALEWIFE FISHERY

The catch of shad in the Potomac River during 1961 totaled 41,718 fish weighing 113,100 pounds and valued at \$16,800 to the fishermen. Compared with 1960, this was a decrease of 42 percent in number, 40 percent in poundage, and 41 percent in value.

In 1961, the Potomac River catch of alewives amounted to almost 15 million fish weighing 6 million pounds and valued at \$107,003. This was a gain of 12 percent in number, 8 percent in poundage, and 23 percent in value compared with 1960.

There were 543 fishermen engaged in the Potomac River shad and alewife fisheries during 1961, compared with 538 in the previous year. Statistics on the catch and operating units of these fisheries are included in catch and operating unit data for Maryland and Virginia.



SUMMARY OF OPERATING UNITS AND CATCH, 1961

| ITEM | MARYLAND ^{1/} | | | VIRGINIA | | | TOTAL | | | |
|---|------------------------|--------|-------|------------|-----------|---------|------------|-----------|---------|---------|
| | NUMBER | POUNDS | VALUE | NUMBER | POUNDS | VALUE | NUMBER | POUNDS | VALUE | |
| OPERATING UNITS | | | | | | | | | | |
| FISHERMEN, ON BOATS AND SHORE: | | | | | | | | | | |
| REGULAR | 94 | | | 184 | | | | | | 278 |
| CASUAL | 153 | | | 112 | | | | | | 265 |
| TOTAL | 247 | | | 296 | | | | | | 543 |
| SCATS: | | | | | | | | | | |
| "HOTO | 141 | | | 124 | | | | | | 265 |
| OTHER | 34 | | | 57 | | | | | | 91 |
| GEAR: | | | | | | | | | | |
| HAUL SEINES, COMMON LENGTH, YARDS | 2 | | | 7 | | | | | | 9 |
| POUND NETS | 1,000 | | | 2,500 | | | | | | 3,500 |
| FYKE AND HOOP NETS | 3 | | | 139 | | | | | | 142 |
| GILL NETS: | | | | | | | | | | |
| ANCHOR, SET OR STAKE | 214 | | | 95 | | | | | | 309 |
| SQUARE YARDS | 152,600 | | | 30,100 | | | | | | 182,700 |
| DRIFT | 1 | | | 6 | | | | | | 7 |
| SQUARE YARDS | 1,000 | | | 5,100 | | | | | | 6,100 |
| CATCH | | | | | | | | | | |
| | NUMBER | POUNDS | VALUE | NUMBER | POUNDS | VALUE | NUMBER | POUNDS | VALUE | |
| SHAD: | | | | | | | | | | |
| HAUL SEINES | 36 | 100 | \$12 | 560 | 1,400 | \$200 | 596 | 1,500 | \$212 | |
| POUND NETS | 269 | 800 | 113 | 22,454 | 60,600 | 9,100 | 22,743 | 61,400 | 9,213 | |
| FYKE AND HOOP NETS | - | - | - | 400 | 1,100 | 157 | 400 | 1,100 | 157 | |
| GILL NETS: | | | | | | | | | | |
| ANCHOR, SET OR STAKE | 10,615 | 29,300 | 4,258 | 6,630 | 17,900 | 2,690 | 17,245 | 47,200 | 6,948 | |
| DRIFT | 36 | 100 | 10 | 698 | 1,800 | 260 | 734 | 1,900 | 270 | |
| TOTAL | 10,976 | 30,300 | 4,393 | 30,742 | 82,800 | 12,407 | 41,718 | 113,100 | 16,800 | |
| ALEWIVES: | | | | | | | | | | |
| HAUL SEINES | - | - | - | 57,900 | 24,900 | 418 | 57,900 | 24,900 | 418 | |
| POUND NETS | 22,834 | 9,800 | 137 | 14,316,000 | 6,125,700 | 105,230 | 14,338,834 | 6,135,500 | 105,367 | |
| FYKE AND HOOP NETS | - | - | - | 118,000 | 52,300 | 874 | 118,000 | 52,300 | 874 | |
| GILL NETS, ANCHOR, SET OR STAKE | 27,261 | 11,700 | 164 | 24,500 | 10,500 | 180 | 51,761 | 22,200 | 344 | |
| TOTAL | 50,095 | 21,500 | 301 | 14,516,400 | 6,213,400 | 106,702 | 14,566,495 | 6,234,900 | 107,003 | |

^{1/} MARYLAND DATA INCLUDE THE OPERATING UNITS AND CATCH OF UNLICENSED GILL NETS UNDER 100 YARDS IN LENGTH.

SECTION 5 - SOUTH ATLANTIC FISHERIES

The 1961 catch of fish and shellfish landed at ports of the South Atlantic States (North Carolina, South Carolina, Georgia, and the East Coast of Florida) and the commercial catch from the inland lakes of Florida amounted to 402 million pounds valued at approximately \$20 million. Compared with the previous year, this was an increase of over 23 million pounds or 6 percent in volume, but a decline of 1 percent in value. Menhaden, fresh-water catfish and bullheads, Spanish mackerel, and sea bass were the principal species accounting for the volume increase. The lower value resulted from a sharp decline in the catch of shrimp.

The number of fishermen engaged in the commercial fisheries of the South Atlantic area totaled 12,694--a decrease of 234 compared with 1960. Vessels of 5 net tons and over operating in the fishery totaled 1,185--an increase of 11 over the previous year.

There were 458 fishery wholesaling and processing establishments operated compared with 454 the previous year. These firms employed over 7,000 people and manufactured fishery products valued at \$44 million--an increase of about \$3 million compared with 1960. Most of the increase was accounted for by the higher value of packaged breaded products, principally shrimp, the main species processed in the area.

North Carolina continued its role as the leading producer volume-wise, accounting for 71 percent of landings. The East Coast of Florida, which accounted for only 19 percent of the volume, led the South Atlantic States in the value of the catch. In only these States were landings greater than in 1960--an increase of 22 million pounds in North Carolina, and 14 million pounds in the East Coast of Florida.

Menhaden landings of nearly 255 million pounds were 39 million pounds more than in 1960. These increases were reflected in each of the producing States: North Carolina registered a gain of 31 million pounds; and East Coast of Florida, 8 million pounds. It is probable that North Carolina landings would have been greater had not bad weather curtailed fishing operations during the latter part of December. Market prices for menhaden meal remained almost steady throughout the year, with an average price of \$115 per ton--\$33 greater than in 1960. As the season advanced, oil prices exhibited a downward trend. This was primarily a result of greater competition from South American producers vying with United States firms for the European market, which has been the principal outlet for many years.

Landings of shellfish decreased by 15.6 million pounds, or 19 percent, from those of 1960. Of the three major fisheries affected, shrimp was the hardest hit, with a decrease of 11.5 million pounds, and crab landings decreased 4.4 million. The production of oyster meats was 135,000 pounds less than in 1960. Due to slightly increased prices paid for shrimp and oysters, the value of shellfish landings declined only \$1.9 million or 15 percent compared with 1960.

The shrimp fishery, which is the economic mainstay of the commercial fisheries of the South Atlantic States, experienced its poorest year, volume-wise, since 1918. The 19.7 million pounds landed were 11.5 million pounds (37 percent) less than in 1960. Although the decline was apparent in all States, South Carolina was hardest hit with a drop of 51 percent, followed by North Carolina, 50 percent; Georgia, 35 percent; and the East Coast of Florida, 11 percent. The slightly greater proportion of large-size shrimp landed, coupled with higher ex-vessel prices, resulted in an average price increase of about 8 cents per pound over that recorded in 1960. This increase compensated, in only a very small measure, for the greatly reduced catches.



MENHADEN

SOUTH ATLANTIC FISHERIES

In South Carolina, there was some forewarning that commercial shrimp catches for the year would be below normal. The staff of the Bears Bluff Laboratories, Wadmalaw Island, South Carolina, announced in March a significant decrease in numbers of postlarval brown shrimp collected in connection with plankton studies and anticipated that this would be reflected in commercial catches later in the year. They attributed this decline primarily to the extremely cold weather of the previous winter.

Landings of blue crabs were 4.4 million pounds less than in 1960 due to reduced landings in Georgia and South Carolina. The 16 million pounds of blue crabs landed in North Carolina surpassed, by 1 million pounds, the previous record established in 1960. Blue crab landings on the East Coast of Florida were up 500,000 pounds over the previous year. The minimum wage law, which became effective during September, made crab processors apprehensive about their ability to pay the new hourly rate and still maintain a reasonable price for their product. The application of the minimum wage law to this aspect of seafood processing led the Bureau of Commercial Fisheries to sponsor a study to develop automatic equipment. It was felt that automating as much of the processing as possible would enable processors to comply with the minimum wage law without an increase in cost of crab meat to customers. Blue crabs were plentiful in all areas, and it is probable that landings would have been much greater if there had been a strong demand.

Landings of nearly 4 million pounds of oyster meats were 3 percent less than in 1960. The catch was down in all States except the East Coast of Florida, where the production increased to 72,000 pounds of oyster meats--up 28,000 pounds from the 44,000 pounds produced in 1960. Due to a strong market, the value of the total production increased 15 percent over that of the previous year. The oyster shortage in the Middle Atlantic and Chesapeake States continued, thus assuring ready outlets for all South Atlantic production. To meet market demands, some Gulf of Mexico oysters were shipped to the South Atlantic States. State conservation officials were diligent in their attempt to develop sound management principles essential to a sustained maximum harvest. Oyster shucking plants were hard pressed to comply with the new minimum wage law and retain prices at a level acceptable to the consumer.

The poor shrimp season prompted some fishermen to seek other means of supplementing their incomes. This led to the development of a rather intensive fishery for sea bass utilizing traps or pots. Approximately 36 vessels operating out of North and South Carolina ports were engaged in this fishery. Most of the fishing was conducted in the offshore waters at depths of 10 to 16 fathoms. The pots or traps used were identical to, and in some instances, were the same ones used in the crab fishery. The number of pots fished per vessel varied from 10 to 24. This fishery accounted for the bulk of the 983,000 pounds of sea bass landed during the year--the highest total for this species in many years. As another means of supplementing incomes, fishermen expended greater effort in the trawl fishery for finfish.

While mullet landings decreased 1 million pounds in North Carolina, heavier landings at South Carolina and East Coast of Florida ports compensated for this decline. As a result, total landings for the South Atlantic area were only 87,000 pounds less than those recorded for 1960. Average prices per pound paid at dockside were about the same as for 1960 in North Carolina and Florida, East Coast. In South Carolina, the average of 9 cents per pound was an increase of 3 cents over that paid in 1960.



The use of aircraft for locating fish schools was expanded in the fisheries of Florida during 1961. In addition to their utilization in spotting menhaden and Spanish mackerel, aircraft were successfully used in spotting pompano and, in some instances, mullet.

The exploratory vessel Silver Bay, chartered by the Bureau, continued surveys to determine the fishery potential of the South Atlantic area. In addition to further delineations of concentrations of calico scallop off the Florida and North Carolina Coasts, a potential was found for a trawl fishery for snappers off the northeast coast of Florida and Georgia. There was little commercial exploitation of the calico scallop beds discovered the previous year by the Silver Bay. It appears that the principal factor barring exploitation has been the inability to construct a shucking device which would operate satisfactorily aboard a vessel at sea.

Biological research of the Bureau of Commercial Fisheries Laboratories at Beaufort, North Carolina and Brunswick, Georgia, relating to the important species of the South Atlantic area were continued. Duke University was awarded two grants by the National Science Foundation. The first, \$40,000, was for basic research on shrimp, crabs, barnacles, and other crustacea with particular emphasis on larval development under controlled laboratory conditions. The second grant, \$618,676, was for the construction of a biological oceanographic research vessel and suitable berthing facilities at their Marine Laboratory, located at Pivers Island, Beaufort, North Carolina.

The annual meeting of the Southeastern Fisheries Association was held at Jacksonville, Florida, in May 1961. Principal item of discussion was the need for an all-out effort on the part of members to insure passage of a Seafood Commission bill for the State of Florida that would provide a setup similar to the Florida Citrus Commission which has been successful in solving problems of that industry. Other items of discussion related to estuarine problems and the development of fishery resource potentials. The association voted to endorse the resolution of the Gulf States Marine Fisheries Commission seeking additional Federal funds for shrimp research in the Gulf area.

The Bureau acknowledges the assistance of the following organizations in the collection of the data appearing in this section: The North Carolina Department of Conservation and Development, Division of Commercial Fisheries; South Carolina Wildlife Resources Department, Division of Commercial Fisheries; Georgia Game and Fish Commission, Coastal Fisheries Division; and Florida State Board of Conservation and Marine Laboratory, University of Miami.

Condensed summary data on the operating units and catch of the South Atlantic Section appearing on the following pages have been previously published in Current Fishery Statistics No. 3021. Seasonal variation in the catch of fish and shellfish in North Carolina, South Carolina, Georgia, and Florida can be ascertained from the 1961 monthly and annual landing bulletins issued for each of these four States in cooperation with the fishery agency in each State. Additional data on many aspects of the South Atlantic fisheries may be found in the daily, monthly, and annual reports published by the Hampton, Virginia, Market News Office of the Bureau.



SOUTH ATLANTIC FISHERIES

SOUTH ATLANTIC FISHERIES

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SECTIONAL SUMMARIES

SUMMARY OF CATCH, 1961

(MILLIONS OF POUNDS AND MILLIONS OF DOLLARS)

| STATE | FISH | | SHELLFISH, ETC. | | TOTAL | |
|-------------------------------|----------|-------|-----------------|-------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| NORTH CAROLINA | 266 | 4 | 21 | 3 | 287 | 7 |
| SOUTH CAROLINA | 6 | 1 | 11 | 2 | 19 | 3 |
| GEORGIA | 1 | (1) | 19 | 3 | 20 | 3 |
| FLORIDA, EAST COAST | 61 | 4 | 15 | 3 | 76 | 7 |
| TOTAL | 336 | 9 | 66 | 11 | 402 | 20 |

1/ LESS THAN \$500,000.

NOTE:--THE CATCH FOR THE INLAND LAKES OF FLORIDA IS INCLUDED WITH THE CATCH FOR THE EAST COAST OF FLORIDA.

SUMMARY OF OPERATING UNITS, 1961

| ITEM | NORTH CAROLINA | SOUTH CAROLINA | GEORGIA | FLORIDA, EAST COAST | TOTAL, EXCLUSIVE OF DUPLI-CATION |
|------------------------------------|----------------|----------------|---------|---------------------|----------------------------------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | |
| ON VESSELS | 2,172 | 473 | 633 | 1,098 | 3,721 |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | 2,456 | 793 | 510 | 1,452 | 5,211 |
| CASUAL | 1,527 | 776 | 885 | 574 | 3,762 |
| TOTAL | 6,155 | 2,042 | 2,028 | 3,124 | 12,694 |
| VESSELS, MOTOR. | 496 | 224 | 313 | 469 | 1,185 |
| GROSS TONNAGE | 19,931 | 5,972 | 9,070 | 17,075 | 41,152 |
| BOATS: | | | | | |
| MOTOR | 2,099 | 975 | 985 | 1,483 | 5,542 |
| OTHER | 816 | 85 | 33 | 58 | 992 |
| GEAR: | | | | | |
| HAUL SEINES: | | | | | |
| COMMON | 77 | 18 | 5 | 28 | 128 |
| LENGTH, YARDS | 21,465 | 3,740 | 825 | 12,070 | 38,100 |
| LONG | 48 | - | - | - | 46 |
| LENGTH, YARDS | 68,550 | - | - | - | 68,550 |
| PURSE SEINES: | | | | | |
| MENHADEN | 52 | - | - | 3 | 55 |
| LENGTH, YARDS | 20,800 | - | - | 1,200 | 22,000 |
| OTHER | 3 | - | - | 1 | 4 |
| LENGTH, YARDS | 1,200 | - | - | 200 | 1,400 |
| BAG NETS. | 15 | - | - | - | 15 |
| YARDS AT MOUTH | 375 | - | - | - | 375 |
| OTTER TRAWLS: | | | | | |
| CRAB | 205 | 13 | 46 | - | 264 |
| YARDS AT MOUTH | 3,069 | 221 | 749 | - | 4,039 |
| FISH | 84 | 5 | - | - | 89 |
| YARDS AT MOUTH | 2,058 | 98 | - | - | 2,156 |
| SHRIMP | 842 | 495 | 769 | 868 | 2,413 |
| YARDS AT MOUTH | 14,501 | 8,711 | 9,587 | 12,562 | 36,727 |
| SCALLOP | 9 | - | - | - | 9 |
| YARDS AT MOUTH | 81 | - | - | - | 81 |
| POUND NETS, FISH | 777 | - | - | 5 | 782 |
| FYKE AND HOOP NETS, FISH | 141 | - | - | 174 | 315 |
| POTS AND TRAPS: | | | | | |
| CRAB: | | | | | |
| BLUE | 18,075 | 7,050 | 9,960 | 11,540 | 46,625 |
| OTHER | - | - | - | 850 | 850 |
| EEL | 630 | - | - | - | 630 |
| FISH | 4,578 | 3,405 | 597 | 7,195 | 15,775 |
| LOBSTER, SPINY | - | - | - | 13,360 | 13,360 |
| TURTLE | 90 | - | - | - | 90 |
| GILL NETS: | | | | | |
| ANCHOR, SET OR STAKE | 2,827 | 309 | 220 | 20 | 3,376 |
| SQUARE YARDS | 915,092 | 42,883 | 60,409 | 12,500 | 1,030,884 |
| DRI FT: | | | | | |
| SHAD | 170 | 111 | 373 | 18 | 672 |
| SQUARE YARDS | 68,000 | 14,936 | 185,200 | 21,700 | 289,836 |
| OTHER | 18 | - | - | 20 | 38 |
| SQUARE YARDS | 11,360 | - | - | 22,200 | 33,560 |
| RUNAROUND | 206 | - | - | 306 | 512 |
| SQUARE YARDS | 163,400 | - | - | 530,250 | 693,650 |
| TRAMMEL NETS | - | - | - | 15 | 15 |
| SQUARE YARDS | - | - | - | 14,400 | 14,400 |

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SOUTH ATLANTIC FISHERIES

SUMMARY OF OPERATING UNITS, 1961 - Continued

| ITEM | NORTH CAROLINA | SOUTH CAROLINA | GEORGIA | FLORIDA, EAST COAST | TOTAL, EXCLUSIVE OF DUPLICATION |
|----------------------------------|----------------|----------------|---------|---------------------|---------------------------------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| GEAR - CONTINUED: | | | | | |
| LINES: | | | | | |
| HAND | 20 | 42 | 85 | 745 | 892 |
| HOOKS | 40 | 84 | 172 | 875 | 1,171 |
| TROLL | - | - | - | 533 | 533 |
| HOOKS | - | - | 655 | 519 | 1,198 |
| LONG OR SET WITH HOOKS | 8 | 16 | 32,750 | 518,600 | 556,950 |
| HOOKS | 1,600 | 4,000 | 3 | - | 528 |
| TROT WITH BAITS | 379 | 146 | 2,150 | - | 686,250 |
| BAITS | 582,100 | 102,000 | - | - | - |
| DIP NETS: | | | | | |
| COMMON | 150 | - | - | - | 150 |
| DROP | - | - | 2,975 | - | 2,975 |
| CAST NETS | - | 32 | 3 | 17 | 52 |
| SPEARS | 75 | 21 | - | 1 | 97 |
| DREDGES: | | | | | |
| CLAM | 21 | - | - | - | 21 |
| YARDS AT MOUTH | 27 | - | - | - | 27 |
| OYSTER, COMMON | 242 | - | - | - | 242 |
| YARDS AT MOUTH | 328 | - | - | - | 328 |
| SCALLOP | 36 | - | - | 1 | 37 |
| YARDS AT MOUTH | 36 | - | - | 3 | 39 |
| TONGS | 97 | 193 | 49 | 7 | 346 |
| RAKES | 249 | 34 | - | - | 283 |

NOTE:--THE OPERATING UNITS FOR THE INLAND LAKES OF FLORIDA ARE INCLUDED WITH THE DATA FOR THE EAST COAST OF FLORIDA.

CATCH BY STATES, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | NORTH CAROLINA | | SOUTH CAROLINA | | GEORGIA | |
|--------------------------------------|----------------|-------|----------------|-------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH | | | | | | |
| ALEWIVES | 11,951 | 120 | - | - | - | - |
| AMBERJACK | - | - | - | - | (1) | (1) |
| BLUEFISH | 752 | 94 | 1 | (1) | (1) | (1) |
| BOWFIN | - | - | - | - | 5 | (1) |
| BUTTERFISH | 349 | 35 | - | - | - | - |
| CABIO | 18 | 1 | - | - | - | - |
| CARP | 159 | 5 | - | - | 2 | (1) |
| CATFISH AND BULLHEADS | 1,093 | 87 | 319 | 29 | 159 | 23 |
| CROAKER | 1,754 | 144 | 13 | 1 | - | - |
| DRUM: | | | | | | |
| BLACK | 75 | 5 | 3 | (1) | 1 | (1) |
| RED | 90 | 7 | 1 | (1) | 1 | (1) |
| EELS, COMMON | 57 | 2 | - | - | 1 | (1) |
| FLOUNDERS | 1,897 | 230 | 95 | 20 | 37 | 4 |
| GROUPEFS | (1) | (1) | 6 | (1) | 1 | (1) |
| GRUNTS | 2 | (1) | 21 | 1 | - | - |
| HARVESTFISH | 41 | 3 | - | - | - | - |
| HERRING, THREAD | 4,128 | 45 | - | - | - | - |
| HICKORY SHAD | 276 | 14 | 1 | (1) | 3 | (1) |
| JEWFISH | 1 | (1) | - | - | - | - |
| KING MACKEREL | 43 | 9 | 1 | (1) | - | - |
| KING WHITING OR "KINGFISH" | 1,476 | 136 | 360 | 47 | 247 | 20 |
| MENHADEN | 221,555 | 2,415 | - | - | - | - |
| MULLET | 2,194 | 175 | 2,840 | 256 | - | - |
| PIGFISH | 228 | 13 | - | - | - | - |
| PIKE OR PICKEREL | (1) | (1) | - | - | - | - |
| POMPANO | 5 | 2 | 50 | 20 | - | - |
| SAND PERCH | 18 | 1 | - | - | - | - |
| SCUP OR PORGY | 241 | 19 | - | - | - | - |
| SEA BASS | 635 | 70 | 324 | 64 | 1 | (1) |
| SEA TROUT OR WEAKFISH: | | | | | | |
| GRAY | 2,308 | 127 | 25 | 1 | - | - |
| SPOTTED | 209 | 52 | 56 | 13 | 2 | 1 |
| SHAD | 673 | 168 | 110 | 35 | 404 | 93 |
| SHARKS, UNCLASSIFIED | 2 | (1) | 22 | 2 | - | - |
| SHEEPSHEAD, SALT-WATER | 10 | 1 | 15 | 1 | - | - |
| SNAPPER: | | | | | | |
| RED | 6 | 1 | 113 | 16 | 3 | 1 |
| VERMILION | - | - | 25 | 1 | - | - |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SOUTH ATLANTIC FISHERIES

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CATCH BY STATES, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | NORTH CAROLINA | | SOUTH CAROLINA | | GEORGIA | |
|---|----------------|--------------|----------------|--------------|---------------|--------------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH - CONTINUED | | | | | | |
| SPADEFISH | 2 | (1) | - | - | - | - |
| SPANISH MACKEREL | 134 | 20 | 4 | 1 | - | - |
| SPOT | 2,056 | 115 | 3,468 | 207 | (1) | (1) |
| STRIPED BASS | 550 | 88 | - | - | 1 | (1) |
| STURGEON | 40 | 6 | 51 | 9 | 4 | 1 |
| SMELLFISH | 294 | 9 | - | - | - | - |
| TUNA, LITTLE | 1 | (1) | - | - | - | - |
| WHITE PERCH | 346 | 35 | - | - | - | - |
| WHITING | 3 | (1) | - | - | - | - |
| YELLOW PERCH | 40 | 2 | - | - | - | - |
| UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD | 10,160 | 69 | 86 | 1 | 379 | 7 |
| TOTAL FISH | 265,872 | 4,325 | 8,010 | 725 | 1,251 | 150 |
| SHELLFISH, ETC. | | | | | | |
| CRABS, BLUE: | | | | | | |
| HARD | 15,860 | 609 | 4,672 | 186 | 12,312 | 450 |
| SOFT AND PEELER | 101 | 35 | - | - | - | - |
| TOTAL CRABS | 15,961 | 644 | 4,672 | 186 | 12,312 | 450 |
| SHRIMP | 3,016 | 830 | 3,907 | 1,301 | 6,810 | 2,371 |
| CLAMS, HARD, PUBLIC | 490 | 196 | 109 | 38 | - | - |
| OCTOPUS | (1) | (1) | - | - | - | - |
| OYSTERS, MARKET: | | | | | | |
| PUBLIC: | | | | | | |
| SPRING | 460 | 234 | - | - | - | - |
| FALL | 634 | 321 | - | - | - | - |
| PRIVATE: | | | | | | |
| SPRING | 53 | 26 | 1,701 | 732 | 96 | 25 |
| FALL | 62 | 33 | 843 | 363 | 63 | 22 |
| TOTAL OYSTERS | 1,209 | 616 | 2,544 | 1,095 | 159 | 47 |
| SCALLOPS: | | | | | | |
| BAY | 106 | 42 | - | - | - | - |
| CALICO | 22 | 9 | - | - | - | - |
| SQUID | 26 | 2 | - | - | - | - |
| TURTLES, SNAPPER | 29 | 5 | - | - | - | - |
| TOTAL SHELLFISH, ETC. | 20,879 | 2,344 | 11,232 | 2,620 | 19,281 | 2,868 |
| GRAND TOTAL | 286,751 | 6,669 | 19,242 | 3,345 | 20,532 | 3,018 |

| SPECIES | FLORIDA, EAST COAST | | TOTAL | |
|---------------------------------|---------------------|-------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH | | | | |
| ALEWIVES | 2 | (1) | 11,953 | 120 |
| AMBERJACK | 5 | (1) | 5 | (1) |
| BALLYHOD | 3 | (1) | 3 | (1) |
| BARRACUDA | 1 | (1) | 1 | (1) |
| BLUEFISH | 979 | 93 | 1,732 | 187 |
| BLUE RUNNER | 39 | 3 | 39 | 3 |
| BONITO | 1 | (1) | 1 | (1) |
| BOWFIN | - | - | 5 | (1) |
| BUTTERFISH | - | - | 349 | 35 |
| CABIO | 7 | 1 | 25 | 2 |
| CARP | - | - | 161 | 5 |
| CATFISH AND BULLHEADS | 12,683 | 1,760 | 14,254 | 1,699 |
| CROAVALLE | 88 | 3 | 88 | 3 |
| CROAKER | 143 | 18 | 1,910 | 163 |
| DOLPHIN | 7 | 1 | 7 | 1 |
| DRUM: | | | | |
| BLACK | 64 | 5 | 143 | 10 |
| RED | 115 | 16 | 207 | 23 |
| EELS, COMMON | - | - | 58 | 2 |
| FLOUNDERS | 169 | 25 | 2,198 | 279 |
| GROUPERS | 257 | 28 | 264 | 26 |
| GRUNTS | 24 | 2 | 47 | 3 |
| HARVESTFISH | - | - | 41 | 3 |
| HERRING, THREAD | - | - | 4,128 | 45 |
| HICKORY SHAD | - | - | 280 | 14 |
| HOGFISH | 2 | (1) | 2 | (1) |
| JEWFISH | 16 | 1 | 17 | 1 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SOUTH ATLANTIC FISHERIES

CATCH BY STATES, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | FLORIDA, EAST COAST | | TOTAL | |
|--|---------------------|-------|----------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH - CONTINUED | | | | |
| KING MACKEREL | 2,076 | 270 | 2,120 | 279 |
| KING WHITING OR "KINGFISH" | 1,061 | 88 | 3,144 | 291 |
| MENHADEN | 32,950 | 273 | 254,505 | 2,656 |
| MOJARRA | 146 | 13 | 146 | 13 |
| MULLET | 2,629 | 139 | 7,553 | 570 |
| PERMIT | (1) 3 | (1) | (1) 231 | (1) 13 |
| PIGFISH | - | (1) | (1) | (1) |
| PIKE OR PICKEREL | - | - | - | - |
| POMPANO | 166 | 116 | 221 | 138 |
| SAND PERCH | - | - | 18 | 1 |
| SCUP OR PORGY | 12 | 1 | 253 | 20 |
| SEA BASS | 23 | 2 | 963 | 136 |
| SEA CATFISH | 18 | 1 | 18 | 1 |
| SEA TROUT OR WEAKFISH: | | | | |
| GRAY | 57 | 6 | 2,390 | 134 |
| SPOTTED | 750 | 179 | 1,017 | 245 |
| SHAD | 425 | 70 | 1,612 | 366 |
| SHARKS, UNCLASSIFIED | - | - | 24 | 2 |
| SHEEPSHEAD, SALT-WATER | 54 | 4 | 79 | 6 |
| SNAPPER: | | | | |
| MANGROVE | 52 | 10 | 52 | 10 |
| MUTTON | 46 | 10 | 46 | 10 |
| RED | 678 | 167 | 600 | 205 |
| VERMILION | 20 | 5 | 45 | 6 |
| YELLOWTAIL | 95 | 23 | 95 | 23 |
| SPADEFISH | - | - | 2 | (1) |
| SPANISH MACKEREL | 3,156 | 325 | 3,296 | 346 |
| SPOT | 929 | 106 | 6,453 | 430 |
| STRIPED BASS | - | - | 551 | 88 |
| STURGEON | - | - | 95 | 16 |
| SWELLFISH | - | - | 294 | 9 |
| TENPOUNDER | 2 | (1) | 2 | (1) |
| TRIGGERFISH | 3 | (1) | 3 | (1) |
| TRIPLETAIL | 11 | 1 | 11 | 1 |
| TUNA, LITTLE | - | - | 1 | (1) |
| WARSAW | 7 | (1) | 7 | (1) |
| WHITE PERCH | - | - | 346 | 35 |
| WHITING | - | - | 3 | (1) |
| YELLOW PERCH | - | - | 40 | 2 |
| UNCLASSIFIED: | | | | |
| FOR FOOD | 280 | 19 | 280 | 19 |
| BAIT, REDUCTION, AND ANIMAL FOOD | 493 | 11 | 11,116 | 88 |
| TOTAL FISH | 60,949 | 3,817 | 336,082 | 9,017 |
| SHELLFISH, ETC. | | | | |
| CRABS: | | | | |
| BLUE: | | | | |
| HARD | 7,486 | 344 | 40,350 | 1,589 |
| SOFT AND PEELER | (1) 25 | (1) 9 | 101 | 35 |
| STONE | - | - | 25 | 9 |
| TOTAL CRABS | 7,511 | 353 | 40,476 | 1,633 |
| LOBSTERS, SPINY | 702 | 249 | 702 | 249 |
| SHRIMP | 6,016 | 2,437 | 19,749 | 6,939 |
| CLAMS, HARD, PUBLIC | 4 | 2 | 503 | 236 |
| CONCHS | (1) | (1) | (1) | (1) |
| OCTOPUS | - | - | (1) | (1) |
| OYSTERS, MARKET: | | | | |
| PUBLIC: | | | | |
| SPRING | 29 | 8 | 489 | 242 |
| FALL | 9 | 3 | 643 | 324 |
| PRIVATE: | | | | |
| SPRING | 16 | 5 | 1,866 | 790 |
| FALL | 18 | 5 | 986 | 423 |
| TOTAL OYSTERS | 72 | 21 | 3,984 | 1,779 |
| SCALLOPS: | | | | |
| BAY | - | - | 106 | 42 |
| CALICO | 4 | 1 | 26 | 10 |
| SQUID | 4 | 1 | 30 | 3 |
| TURTLES: | | | | |
| GREEN | (1) 1 | (1) | (1) 1 | (1) |
| LOGGERHEAD | - | - | 29 | 5 |
| SNAPPER | - | - | 23 | 23 |
| SOFT-SHELL | 458 | 23 | 458 | 23 |
| TOTAL SHELLFISH, ETC. | 14,772 | 3,087 | 66,164 | 10,919 |
| GRAND TOTAL | 75,721 | 6,904 | 402,246 | 19,936 |

1/ LESS THAN 500 POUNDS OR \$500.

NOTE:--THE CATCH FOR THE INLAND LAKES OF FLORIDA IS INCLUDED WITH THE CATCH FOR THE EAST COAST OF FLORIDA.

SOUTH ATLANTIC FISHERIES

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CATCH OF CERTAIN SHELLFISH, 1961

(NUMBER AND BUSHELS)

| SPECIES | NORTH CAROLINA | | SOUTH CAROLINA | | GEORGIA | | |
|---------------------|------------------|------------|----------------|------------|-----------|------------|-----------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | |
| CRABS, BLUE: | | | | | | | |
| HARD | NUMBER | 47,640,300 | \$608,478 | 11,773,692 | \$185,844 | 24,624,400 | \$450,158 |
| SOFT AND PEELER | DO | 302,400 | 35,280 | - | - | - | - |
| STONE | DO | 11,550 | 196,160 | 12,423 | 38,045 | - | - |
| CLAMS, HARD, PUBLIC | U.S. STD. BUSHEL | | | | | | |
| OYSTERS, MARKET: | | | | | | | |
| PUBLIC: | | | | | | | |
| SPRING | DO | 88,588 | 233,541 | - | - | - | - |
| FALL | DO | 122,301 | 321,400 | - | - | - | - |
| PRIVATE: | | | | | | | |
| SPRING | DO | 10,102 | 27,974 | 534,971 | 732,285 | 29,112 | 25,414 |
| FALL | DO | 11,855 | 32,552 | 264,829 | 362,925 | 25,800 | 22,236 |
| SCALLOPS: | | | | | | | |
| BAY | DO | 17,617 | 42,280 | - | - | - | - |
| CALICO | DO | 5,126 | 6,960 | - | - | - | - |

| SPECIES | FLORIDA, EAST COAST | | TOTAL | | |
|---------------------|---------------------|------------|-----------|------------|-------------|
| | QUANTITY | VALUE | QUANTITY | VALUE | |
| CRABS: | | | | | |
| BLUE: | | | | | |
| HARD | NUMBER | 14,971,200 | \$344,338 | 99,009,592 | \$1,568,618 |
| SOFT AND PEELER | DO | 1,600 | 200 | 304,000 | 35,480 |
| STONE | DO | 25,300 | 8,729 | 25,300 | 8,729 |
| CLAMS, HARD, PUBLIC | U.S. STD. BUSHEL | 525 | 1,386 | 74,498 | 235,591 |
| CONCHS. | DO | 14 | 60 | 14 | 60 |
| OYSTERS, MARKET: | | | | | |
| PUBLIC: | | | | | |
| SPRING | DO | 6,579 | 6,466 | 95,167 | 242,007 |
| FALL | DO | 2,238 | 2,764 | 124,539 | 324,164 |
| PRIVATE: | | | | | |
| SPRING | DO | 3,699 | 4,703 | 577,884 | 790,376 |
| FALL | DO | 4,381 | 5,410 | 306,865 | 423,123 |
| SCALLOPS: | | | | | |
| BAY | DO | - | - | 17,617 | 42,280 |
| CALICO | DO | 720 | 1,440 | 5,846 | 10,400 |

NOTE:--THE CAPACITY OF A U.S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

AVERAGE WEIGHTS OF CERTAIN SHELLFISH, 1961

| SPECIES | NORTH CAROLINA | SOUTH CAROLINA | GEORGIA | FLORIDA, EAST COAST | |
|---------------------|-------------------------------------|----------------|----------|---------------------|-------|
| | QUANTITY | QUANTITY | QUANTITY | QUANTITY | |
| CRABS: | | | | | |
| BLUE: | | | | | |
| HARD | NUMBER PER POUND | 3.00 | 2.52 | 2.00 | 2.00 |
| SOFT AND PEELER | DO | 3.00 | - | - | 4.00 |
| STONE | DO | - | - | - | 1.00 |
| CLAMS, HARD, PUBLIC | LBS. MEATS PER U.S. STANDARD BUSHEL | 7.97 | 8.75 | - | 8.00 |
| CONCHS. | DO | - | - | - | 14.00 |
| OYSTERS, MARKET: | | | | | |
| PUBLIC: | | | | | |
| SPRING | DO | 5.19 | - | - | 4.38 |
| FALL | DO | 5.18 | - | - | 4.20 |
| PRIVATE: | | | | | |
| SPRING | DO | 5.28 | 3.18 | 3.29 | 4.33 |
| FALL | DO | 5.26 | 3.18 | 2.43 | 4.20 |
| SCALLOPS: | | | | | |
| BAY | DO | 6.00 | - | - | - |
| CALICO | DO | 4.37 | - | - | 5.00 |

NOTE:--THE CAPACITY OF A U.S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

SOUTH ATLANTIC FISHERIES

MANUFACTURED FISHERY PRODUCTS, 1961

| ITEM | NORTH CAROLINA | | SOUTH CAROLINA | |
|--|----------------|------------|----------------|------------|
| | QUANTITY | VALUE | QUANTITY | VALUE |
| ALEWIVES: | | | | |
| ROE, CANNED | STANDARD CASES | 8,937 | - | - |
| FISH, CORNED (SALTED) | POUNDS | 4,500,700 | - | - |
| MENHADEN: | | | | |
| DRY SCRAP AND MEAL | TONS | 23,379 | 2,688,585 | - |
| OIL | GALLONS | 2,785,640 | 958,811 | - |
| SOLUBLES | TONS | 7,544 | 374,713 | - |
| SPANISH MACKEREL, FRESH AND FROZEN FILLETS | POUNDS | (1) | (1) | - |
| CRABS, BLUE, COOKED MEAT | DO | 1,862,208 | 1,500,492 | 211,436 |
| SHRIMP, FRESH AND FROZEN: | | | | |
| RAW, HEADLESS | DO | (1) | (1) | (1) |
| PEELED (INCLUDING DEVEINED) | DO | - | - | (1) |
| BREADED (RAW AND COOKED) | DO | (1) | (1) | (1) |
| OYSTERS, FRESH AND FROZEN, SHUCKED | GALLONS | 99,971 | 651,681 | 45,553 |
| UNCLASSIFIED PRODUCTS: | | | | |
| FRESH AND FROZEN PACKAGED: | | | | |
| FISH FILLETS AND STEAKS, NOT BREADED | POUNDS | (2) | (2) | - |
| SHELLFISH, SHUCKED | GALLONS | 4/ 58,295 | 4/233,758 | - |
| FISH AND SHELLFISH | POUNDS | 5/238,433 | 5/210,368 | 6/ 22,750 |
| CURED FISH | DO | 9/226,600 | 9/ 45,900 | 6/ 22,655 |
| CANNED FISH AND SHELLFISH | STANDARD CASES | 11/ 20,685 | 11/360,275 | 12/ 63,955 |
| INDUSTRIAL PRODUCTS | - | - | 12/ 63,955 | 12/852,536 |
| TOTAL | - | - | - | 1,389,720 |

| ITEM | GEORGIA | | FLORIDA, EAST COAST | |
|--|----------------|-------------|---------------------|-------------|
| | QUANTITY | VALUE | QUANTITY | VALUE |
| GROUPER FILLETS AND STEAKS (FRESH AND FROZEN) | POUNDS | - | 117,100 | \$50,245 |
| MENHADEN: | | | | |
| DRY SCRAP AND MEAL | TONS | - | (1) | (1) |
| OIL | GALLONS | - | (1) | (1) |
| SOLUBLES | TONS | - | (1) | (1) |
| SNAPPER, RED, FRESH AND FROZEN FILLETS | POUNDS | - | - | 305,672 |
| SPANISH MACKEREL, FRESH AND FROZEN FILLETS | DO | - | - | 527,300 |
| CRABS, BLUE, COOKED MEAT | DO | 1,443,183 | \$1,357,197 | 1,191,969 |
| LOBSTER, SPIKE, COOKED (WHOLE) | DO | - | - | 1,203,000 |
| SHRIMP, FRESH AND FROZEN: | | | | |
| RAW, HEADLESS | DO | 1,496,278 | 1,264,468 | 2,240,194 |
| PEELED (INCLUDING DEVEINED) | DO | 3,478,144 | 3,700,515 | 932,148 |
| BREADED (RAW AND COOKED) | DO | 16,660,429 | 11,968,166 | 7,247,051 |
| SPECIALTIES (CAKES, CREOLE, STICKS, AND STUFFED) | DO | 1,818,377 | 1,076,947 | (1) |
| OYSTERS, FRESH AND FROZEN, SHUCKED | GALLONS | 18,111 | 95,301 | 4,945 |
| SCALLOPS, BREADED | POUNDS | (1) | (1) | 67,176 |
| UNCLASSIFIED PRODUCTS: | | | | |
| FRESH AND FROZEN PACKAGED: | | | | |
| FISH FILLETS AND STEAKS, NOT BREADED | DO | - | - | 3/ 596,600 |
| SHELLFISH, SHUCKED | GALLONS | - | - | (2) |
| FISH AND SHELLFISH | POUNDS | 7/6,187,545 | 7/2,997,189 | 8/1,098,372 |
| CURED FISH | DO | - | - | (10) |
| CANNED FISH AND SHELLFISH | STANDARD CASES | - | - | (10) |
| INDUSTRIAL PRODUCTS | - | - | - | 15/902,481 |
| MISCELLANEOUS ITEMS | - | 14/ 18,544 | - | 16/428,993 |
| TOTAL | - | - | 22,478,347 | 12,525,056 |

1/ INCLUDED WITH "UNCLASSIFIED PRODUCTS." 2/ INCLUDED WITH UNCLASSIFIED FISH AND SHELLFISH. 3/ INCLUDES FRESH FILLETS OF BLUEFISH AND POMPAD; FROZEN FILLETS OF BLUEFISH, MULLET, POMPAD, SPOTTED SEA TROUT, AND UNCLASSIFIED SPECIES; AND FROZEN STEAKS OF KING WHITING AND UNCLASSIFIED SPECIES. 4/ INCLUDES SHUCKED CALICO SCALLOPS AND HARD CLAMS. 5/ INCLUDES FRESH FILLETS OF FLOUNDER, SCUP, SEA BASS, SEA TROUT, SPANISH MACKEREL, AND STRIPED BASS; FROZEN BREADED FLOUNDER, CRAB CAKES, DEVEILED CRABS, RAW HEADLESS SHRIMP, BREADED SHRIMP, BREADED OYSTERS, AND SHELLFISH DINNERS. 6/ INCLUDES FROZEN DEVEILED CRABS, RAW HEADLESS SHRIMP, RAW PEELED SHRIMP, COOKED SHRIMP, BREADED SHRIMP, BREADED OYSTERS, AND SHELLFISH PLATTERS. 7/ INCLUDES FROZEN BREADED FISH FILLETS, PORTIONS, STEAKS, AND STICKS; FROZEN UNBREADED FISH PORTIONS; FROZEN CRAB AU GRATIN, DEVEILED CRABS, AND CRAB STICKS; FROZEN BREADED OYSTERS, OYSTER STICKS, AND SCALLOPS; FROZEN FISH WITH STUFFING, FISH DINNERS, SHELLFISH CREOLE, AND SHELLFISH DINNERS. 8/ INCLUDES FROZEN BREADED FISH PORTIONS, FISH STICKS, CRAB STICKS, OYSTERS, AND CLAMS; FROZEN STONE CRAB CLAWS, CRAB CAKES, DEVEILED CRABS, SHRIMP PATTIES, STUFFED SHRIMP, AND SHELLFISH DINNERS; AND FRESH SHUCKED CALICO SCALLOPS. 9/ INCLUDES SALTED MULLET AND SPOT; AND SMOKED ALEWIVES. 10/ INCLUDED WITH MISCELLANEOUS ITEMS. 11/ INCLUDES CANNED ALEWIVES, SHAD, ANIMAL FOOD, AND CRAB MEAT. 12/ INCLUDES CANNED CRAB MEAT, DEVEILED CRABS, OYSTERS, AND OYSTER STEW. 13/ INCLUDES THE VALUE OF MEAL AND OIL FROM THREAD HERRING, AND UNCLASSIFIED SPECIES AND CRAB MEAL. 14/ VALUE OF CRAB MEAL. 15/ INCLUDES THE VALUE OF SMOKED BUTTERFLY, CHUB, KING WHITING, MARLIN, MULLET, SABLEFISH, SALMON, STURGEON, AND WHITEFISH; AND CANNED KING MACKEREL PASTE.

NOTE.--SOME OF THE ABOVE PRODUCTS MAY HAVE BEEN MANUFACTURED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR A FOREIGN COUNTRY; THEREFORE, THEY CANNOT BE CORRELATED DIRECTLY WITH THE CATCH WITHIN THE STATE.

SOUTH ATLANTIC FISHERIES

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SUMMARY OF MANUFACTURED PRODUCTS, 1961

(VALUE IN THOUSANDS OF DOLLARS)

| ITEM | QUANTITY | VALUE |
|--|----------------------|--------|
| PACKAGED, FRESH AND FROZEN: | | |
| NOT BREADED: | | |
| FISH | 1,598 | 723 |
| SHELLFISH | 16,069 | 13,765 |
| BREADED: | | |
| FISH | DO | 2,297 |
| SHELLFISH | DO | 18,204 |
| SPECIALTIES (FISH AND SHELLFISH) | DO | 1,798 |
| CANNED FISH AND SHELLFISH | 1,000 STANDARD CASES | 1,368 |
| CURED FISH (SALTED AND SMOKED) | 1,000 POUNDS | 607 |
| INDUSTRIAL PRODUCTS | - | 5,240 |
| TOTAL | - | 44,002 |



VALUE OF MANUFACTURED PRODUCTS, BY STATES, 1961

(THOUSANDS OF DOLLARS)

| ITEM | VALUE |
|-------------------------------|--------|
| NORTH CAROLINA | 7,609 |
| SOUTH CAROLINA | 1,390 |
| GEORGIA | 22,478 |
| FLORIDA, EAST COAST | 12,525 |
| TOTAL | 44,002 |



WHOLESALE AND MANUFACTURING, 1961

| ITEM | NORTH CAROLINA | SOUTH CAROLINA | GEORGIA | FLORIDA, EAST COAST | TOTAL |
|------------------------------|----------------|----------------|---------|---------------------|--------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| WHOLESALE AND MANUFACTURING: | | | | | |
| ESTABLISHMENTS | 181 | 73 | 65 | 139 | 458 |
| PERSONS ENGAGED: | | | | | |
| AVERAGE FOR SEASON | 2,514 | 823 | 2,569 | 1,737 | 7,643 |
| AVERAGE FOR YEAR | 996 | 608 | 1,976 | 1,350 | 4,930 |

SOUTH ATLANTIC FISHERIES

NORTH CAROLINA

OPERATING UNITS BY GEAR, 1961

| ITEM | HAUL SEINES | | PURSE SEINES | | BAG NETS | OTTER TRAWLS | |
|--------------------------|-------------|--------|--------------|--------|----------|--------------|--------|
| | COMMON | LONG | MENHADEN | OTHER | | CRAB | FISH |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | - | 73 | 1,166 | - | - | 30 | 180 |
| ON VESSELS | - | - | - | - | - | - | - |
| ON BOATS AND SHORE: | - | - | - | - | - | - | - |
| REGULAR | 145 | 196 | - | - | - | 193 | 32 |
| CASUAL | 269 | - | - | 18 | 15 | 50 | - |
| TOTAL | 434 | 269 | 1,166 | 18 | 15 | 273 | 212 |
| VESSELS, MOTOR | - | 23 | 32 | - | - | 15 | 68 |
| GROSS TONNAGE | - | 189 | 10,588 | - | - | 136 | 2,547 |
| BOATS: | - | - | - | - | - | - | - |
| MOTOR | 41 | 73 | 156 | 3 | 15 | 190 | 16 |
| OTHER | 66 | 94 | - | 3 | - | - | - |
| GEAR: | - | - | - | - | - | - | - |
| NUMBER | 77 | 48 | 52 | 3 | 15 | 205 | 84 |
| LENGTH, YARDS | 21,465 | 68,550 | 20,800 | 1,200 | - | - | - |
| YARDS AT MOUTH | - | - | - | - | 375 | 3,069 | 2,058 |

| ITEM | OTTER TRAWLS-CONTINUED | | POUND NETS, FISH | FYKE AND HOOP NETS, FISH | POTS AND TRAPS | | | |
|--------------------------|------------------------|---------|------------------|--------------------------|----------------|--------|--------|--------|
| | SHRIMP | SCALLOP | | | CRAB | EEL | FISH | TURTLE |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | 895 | 26 | - | - | - | - | 64 | - |
| ON VESSELS | - | - | - | - | - | - | - | - |
| ON BOATS AND SHORE: | - | - | - | - | - | - | - | - |
| REGULAR | 508 | - | 129 | - | 286 | - | 56 | - |
| CASUAL | 4 | - | 86 | 14 | 54 | 35 | 86 | 7 |
| TOTAL | 1,407 | 26 | 215 | 14 | 340 | 35 | 206 | 7 |
| VESSELS, MOTOR | 407 | 9 | - | - | - | - | 32 | - |
| GROSS TONNAGE | 8,686 | 363 | - | - | - | - | 415 | - |
| BOATS: | - | - | - | - | - | - | - | - |
| MOTOR | 321 | - | 90 | 9 | 291 | 33 | 90 | 7 |
| OTHER | - | - | 3 | - | - | 2 | 48 | - |
| GEAR: | - | - | - | - | - | - | - | - |
| NUMBER | 842 | 9 | 777 | 141 | 18,075 | 630 | 4,578 | 90 |
| YARDS AT MOUTH | 14,501 | 81 | - | - | - | - | - | - |

| ITEM | GILL NETS | | | | LINES | | | DIP NETS, COMMON |
|--------------------------|----------------------|--------|--------|-----------|-------|------------------------|-----------------|------------------|
| | ANCHOR, SET OR STAKE | DRIFT | | RUNAROUND | HAND | LONG OR SET WITH HOOKS | TROT WITH BAITS | |
| | | SHAD | OTHER | | | | | NUMBER |
| FISHERMEN: | 26 | - | - | - | 6 | - | - | - |
| ON VESSELS | - | - | - | - | - | - | - | - |
| ON BOATS AND SHORE: | - | - | - | - | - | - | - | - |
| REGULAR | 441 | - | - | 236 | - | - | 293 | 100 |
| CASUAL | 387 | 170 | 18 | 116 | 14 | 8 | 86 | 50 |
| TOTAL | 854 | 170 | 18 | 352 | 20 | 8 | 379 | 150 |
| VESSELS, MOTOR | 10 | - | - | - | 2 | - | - | - |
| GROSS TONNAGE | 79 | - | - | - | 167 | - | - | - |
| BOATS: | - | - | - | - | - | - | - | - |
| MOTOR | 537 | 50 | - | 183 | 7 | 8 | 343 | 100 |
| OTHER | 119 | 120 | 18 | 33 | - | - | 36 | 50 |
| GEAR: | - | - | - | - | - | - | - | - |
| NUMBER | 2,827 | 170 | 18 | 206 | 20 | 8 | 379 | 150 |
| SQUARE YARDS | 915,092 | 68,000 | 11,360 | 163,400 | - | - | - | - |
| HOOKS OR BAITS | - | - | - | - | 40 | 1,600 | 582,100 | - |

| ITEM | SPEARS | DREDGES | | | TONGS | RAKES | BY HAND | TOTAL, EXCLUSIVE OF DUPLICATION |
|--------------------------|--------|---------|----------------|---------|--------|--------|---------|---------------------------------|
| | | CLAM | OYSTER, COMMON | SCALLOP | | | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | - | 21 | 42 | - | - | - | - | 2,172 |
| ON VESSELS | - | - | - | - | - | - | - | - |
| ON BOATS AND SHORE: | - | - | - | - | - | - | - | - |
| REGULAR | - | 18 | 440 | 18 | 52 | - | 50 | 2,456 |
| CASUAL | 75 | - | - | - | 45 | 249 | 206 | 1,527 |
| TOTAL | 75 | 39 | 482 | 18 | 97 | 249 | 256 | 6,155 |
| VESSELS, MOTOR | - | 9 | 22 | - | - | - | - | 496 |
| GROSS TONNAGE | - | 269 | 194 | - | - | - | - | 19,931 |
| BOATS: | - | - | - | - | - | - | - | - |
| MOTOR | - | 12 | 220 | 18 | 37 | 50 | 90 | 2,099 |
| OTHER | 75 | - | - | - | 60 | 199 | 166 | 816 |
| GEAR: | - | - | - | - | - | - | - | - |
| NUMBER | 75 | 21 | 242 | 36 | 97 | 249 | - | - |
| YARDS AT MOUTH | - | 27 | 328 | 36 | - | - | - | - |

SOUTH ATLANTIC FISHERIES

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NORTH CAROLINA - CATCH BY GEAR, 1961

| SPECIES | HAUL SEINES | | PURSE SEINES | | BAG NETS | |
|----------------------------|------------------|----------------|--------------------|------------------|---------------|---------------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | 288,100 | \$2,881 | - | - | - | - |
| BLUEFISH | 514,900 | 59,273 | - | - | - | - |
| BUTTERFISH | 110,700 | 11,070 | - | - | - | - |
| CABIO | 17,900 | 1,074 | - | - | - | - |
| CARP | 17,600 | 528 | - | - | - | - |
| CATFISH AND BULLHEADS | 80,500 | 6,440 | - | - | - | - |
| CROAKER | 330,000 | 32,222 | - | - | - | - |
| DRUM: | | | | | | |
| BLACK | 21,200 | 1,272 | - | - | - | - |
| RED | 85,400 | 6,832 | - | - | - | - |
| EELS, COMMON | 100 | 4 | - | - | - | - |
| FLOUNDERS | 202,400 | 29,091 | - | - | - | - |
| HARVESTFISH | 12,200 | 854 | - | - | - | - |
| HERRING, THREAD | - | - | 4,127,900 | \$44,994 | - | - |
| HICKORY SHAD | 10,300 | 515 | - | - | - | - |
| KING MACKEREL | 12,400 | 2,480 | - | - | - | - |
| KING WHITING OR "KINGFISH" | 207,800 | 18,305 | - | - | - | - |
| MENHADEN | 29,900 | 326 | 221,524,800 | 2,414,620 | - | - |
| MULLET | 1,303,500 | 104,280 | - | - | - | - |
| PIG FISH | 152,600 | 9,030 | - | - | - | - |
| POMPANO | 5,100 | 1,530 | - | - | - | - |
| SAND PERCH | 600 | 18 | - | - | - | - |
| SEA TROUT OR WEAKFISH: | | | | | | |
| GRAY | 204,200 | 15,272 | - | - | - | - |
| SPOTTED | 120,800 | 30,200 | - | - | - | - |
| SHAD | 40,900 | 10,225 | - | - | - | - |
| SHARKS, UNCLASSIFIED | 2,200 | 110 | - | - | - | - |
| SHEEPSHEAD, SALT-WATER | 10,100 | 808 | - | - | - | - |
| SPADEFISH | 2,300 | 184 | - | - | - | - |
| SPANISH MACKEREL | 81,900 | 12,285 | - | - | - | - |
| SPOT | 1,511,500 | 90,070 | - | - | - | - |
| STRIPED BASS | 123,300 | 19,728 | 47,700 | 7,632 | - | - |
| STURGEON | 18,000 | 2,700 | - | - | - | - |
| SWELLFISH | 900 | 27 | - | - | - | - |
| WHITE PERCH | 28,200 | 2,820 | - | - | - | - |
| YELLOW PERCH | 1,000 | 60 | - | - | - | - |
| SHRIMP | - | - | - | - | 50,000 | \$10,938 |
| TURTLES, SNAPPER | 6,400 | 1,152 | - | - | - | - |
| TOTAL | 5,534,900 | 473,666 | 225,700,400 | 2,467,246 | 50,000 | 10,938 |

| SPECIES | OTTER TRAWLS | | POUND NETS | | FYKE AND HOOP NETS | | POTS AND TRAPS | |
|---|--------------|---------|------------|-----------|--------------------|---------|----------------|--------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | - | - | 10,288,100 | \$102,881 | - | - | - | - |
| BLUEFISH | 15,000 | \$1,200 | 7,300 | 1,095 | - | - | - | - |
| BUTTERFISH | 192,600 | 19,260 | 45,800 | 4,580 | - | - | - | - |
| CARP | - | - | 33,800 | 1,014 | 75,800 | \$2,274 | 23,500 | \$705 |
| CATFISH AND BULLHEADS | - | - | 108,700 | 8,696 | 76,500 | 6,120 | 746,600 | 59,728 |
| CROAKER | 1,227,100 | 97,160 | 131,200 | 7,872 | - | - | - | - |
| DRUM: | | | | | | | | |
| BLACK | 53,000 | 3,180 | - | - | - | - | - | - |
| RED | 4,300 | 430 | - | - | - | - | - | - |
| EELS, COMMON | - | - | 300 | 12 | - | - | 56,300 | 2,252 |
| FLOUNDERS | 1,534,700 | 175,176 | 49,400 | 5,928 | - | - | - | - |
| GROUPERS | 400 | 28 | - | - | - | - | - | - |
| GRUNTS | 2,400 | 144 | - | - | - | - | - | - |
| HARVESTFISH | 6,900 | 483 | 22,000 | 1,540 | - | - | - | - |
| HICKORY SHAD | - | - | 139,000 | 6,950 | - | - | 1,200 | 60 |
| JEW FISH | 200 | 16 | - | - | - | - | - | - |
| KING WHITING OR "KINGFISH" | 997,600 | 85,562 | 10,000 | 800 | - | - | - | - |
| MENHADEN | - | - | 700 | 7 | - | - | - | - |
| PIG FISH | 38,600 | 1,930 | 10,900 | 654 | - | - | - | - |
| SAND PERCH | 17,200 | 516 | - | - | - | - | - | - |
| SCUP OR PORGY | 234,000 | 18,720 | - | - | - | - | - | - |
| SEA BASS | 297,400 | 29,740 | - | - | - | - | - | - |
| SEA TROUT OR WEAKFISH: | | | | | | | 293,200 | 35,184 |
| GRAY | 1,828,600 | 91,430 | 67,400 | 4,044 | - | - | - | - |
| SPOTTED | - | - | 9,500 | 2,375 | - | - | - | - |
| SHAD | - | - | 316,600 | 79,150 | - | - | - | - |
| SNAPPER, RED | 3,700 | 814 | - | - | - | - | - | - |
| SPANISH MACKEREL | - | - | 11,100 | 1,665 | - | - | - | - |
| SPOT | 365,300 | 14,652 | 7,800 | 468 | - | - | - | - |
| STRIPED BASS | - | - | 133,600 | 21,376 | - | - | - | - |
| STURGEON | 2,500 | 375 | 16,100 | 2,415 | - | - | - | - |
| SWELLFISH | 292,900 | 8,787 | - | - | - | - | - | - |
| TUNA, LITTLE | 900 | 45 | - | - | - | - | - | - |
| WHITE PERCH | - | - | 175,700 | 17,570 | - | - | - | - |
| WHITING | 2,800 | 112 | 19,200 | 1,152 | 17,900 | 1,074 | - | - |
| YELLOW PERCH | - | - | - | - | - | - | - | - |
| UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD. | 10,159,800 | 69,373 | - | - | - | - | - | - |

(CONTINUED ON NEXT PAGE)

SOUTH ATLANTIC FISHERIES

NORTH CAROLINA - CATCH BY GEAR, 1961 - Continued

| SPECIES | OTTER TRAWLS | | POUND NETS | | FYKE AND HOOP NETS | | POTS AND TRAPS | |
|------------------------------|----------------------|-----------|------------------------|-----------|--------------------|-----------|----------------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| CRABS, BLUE: | | | | | | | | |
| HARD | 3,370,200 | \$108,082 | - | - | - | - | 6,030,100 | \$241,204 |
| SOFT AND PEELER | 89,800 | 31,430 | - | - | - | - | - | - |
| SHRIMP | 2,966,100 | 818,686 | - | - | - | - | - | - |
| OCTOPUS | 100 | 8 | - | - | - | - | 300 | 45 |
| SCALLOPS, CALICO | 22,400 | 6,960 | - | - | - | - | - | - |
| SQUID | 25,600 | 1,536 | - | - | - | - | 22,300 | 4,014 |
| TURTLES, SNAPPER | - | - | - | - | - | - | - | - |
| TOTAL | 23,753,100 | 1,587,835 | 11,604,200 | \$272,244 | 170,200 | \$9,468 | 7,173,500 | 343,192 |
| SPECIES | GILL NETS | | | | | | | |
| | ANCHOR, SET OR STAKE | | DRIFT | | RUNAROUND | | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | | |
| ALEWIVES | 1,368,100 | \$13,681 | 6,700 | \$67 | 100 | \$1 | | |
| BLUEFISH | 84,100 | 12,600 | - | - | 131,100 | 19,665 | | |
| CARP | 7,500 | 225 | 700 | 21 | - | - | | |
| CATFISH AND BULLHEADS | 23,000 | 1,840 | 100 | 8 | - | - | | |
| CROAKER | 46,700 | 4,670 | - | - | 18,500 | 1,850 | | |
| FLOUNDERS | 3,900 | 400 | - | - | - | - | | |
| HICKORY SHAD | 121,200 | 6,060 | 2,200 | 110 | 2,600 | 130 | | |
| KING MACKEREL | - | - | - | - | 3,600 | 720 | | |
| KING WHITING OR "KINGFISH" | 163,000 | 21,960 | - | - | 72,700 | 8,692 | | |
| MULLET | 321,800 | 25,744 | 15,200 | 1,216 | 553,000 | 44,240 | | |
| PIG FISH | - | - | - | - | 26,000 | 1,560 | | |
| PIKE OR PICKEREL | - | - | - | - | - | - | | |
| SEA TROUT OR WEAKFISH: | | | | | | | | |
| GRAY | 87,800 | 6,724 | - | - | 119,700 | 9,576 | | |
| SPOTTED | 35,500 | 8,875 | 3,500 | 875 | 39,800 | 9,950 | | |
| SHAD | 293,600 | 73,400 | 19,700 | 4,925 | 2,400 | 600 | | |
| SPANISH MACKEREL | 5,900 | 885 | - | - | 14,700 | 2,205 | | |
| SPOT | 95,400 | 5,724 | - | - | 74,700 | 4,482 | | |
| STRIPED BASS | 240,300 | 39,448 | 3,300 | 528 | 1,500 | 240 | | |
| STURGEON | 2,300 | 345 | 200 | 30 | 1,000 | 150 | | |
| WHITE PERCH | 139,700 | 13,970 | 2,400 | 240 | 500 | 50 | | |
| YELLOW PERCH | 1,900 | 114 | - | - | - | - | | |
| TOTAL | 3,061,800 | 235,677 | 54,000 | 8,020 | 1,061,900 | 104,111 | | |
| SPECIES | LINES | | | | | | | |
| | HAND | | LONG OR SET WITH HOOKS | | TROT WITH BAITS | | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | | |
| CATFISH AND BULLHEADS | - | - | 58,000 | \$4,640 | - | - | | |
| DRUM, BLACK | 900 | \$54 | - | - | - | - | | |
| GROUPERS | 100 | 7 | - | - | - | - | | |
| JEW FISH | 500 | 40 | - | - | - | - | | |
| KING MACKEREL | 27,000 | 5,400 | - | - | - | - | | |
| KING WHITING OR "KINGFISH" | 5,000 | 600 | - | - | - | - | | |
| SCUP OR PORGY | 6,600 | 544 | - | - | - | - | | |
| SEA BASS | 44,000 | 5,280 | - | - | - | - | | |
| SNAPPER, RED | 2,200 | 473 | - | - | - | - | | |
| SPANISH MACKEREL | 20,000 | 3,000 | - | - | - | - | | |
| CRABS, BLUE, HARD | - | - | - | - | 6,479,600 | \$259,192 | | |
| TOTAL | 106,500 | 15,398 | 58,000 | 4,640 | 6,479,600 | 259,192 | | |
| SPECIES | DIP NETS | | SPEARS | | DREDGES | | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | | |
| FLOUNDERS | - | - | 106,300 | \$19,134 | - | - | | |
| CRABS, BLUE, SOFT AND PEELER | 11,000 | \$3,650 | - | - | - | - | | |
| CLAMS, HARD, PUBLIC | - | - | - | - | 229,000 | \$91,600 | | |
| OYSTERS, MARKET, PUBLIC | - | - | - | - | - | - | | |
| SPRING | - | - | - | - | 225,900 | 150,862 | | |
| FALL | - | - | - | - | 312,300 | 206,314 | | |
| SCALLOPS, BAY | 53,200 | 21,280 | - | - | 40,000 | 16,000 | | |
| TOTAL | 64,200 | 25,130 | 106,300 | 19,134 | 807,200 | 464,776 | | |
| SPECIES | TONGS | | RAKES | | BY HAND | | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | | |
| CLAMS, HARD, PUBLIC | - | - | 261,400 | \$104,560 | - | - | | |
| OYSTERS, MARKET, PUBLIC: | | | | | | | | |
| SPRING | 47,600 | \$26,335 | - | - | 185,800 | \$54,344 | | |
| FALL | 67,400 | 39,705 | - | - | 254,200 | 75,381 | | |
| PRIVATE: | | | | | | | | |
| SPRING | 40,000 | 22,800 | - | - | 13,300 | 5,174 | | |
| FALL | 36,700 | 20,919 | - | - | 25,700 | 11,633 | | |
| SCALLOPS, BAY | - | - | 12,500 | 5,000 | - | - | | |
| TOTAL | 191,900 | 111,759 | 273,900 | 109,560 | 479,000 | 146,532 | | |

SOUTH ATLANTIC FISHERIES

211

SOUTH CAROLINA

OPERATING UNITS BY GEAR, 1961

| ITEM | HAUL SEINES, COMMON | OTTER TRAWLS | | | |
|--------------------------|------------------------|---------------------------|-------------------------|----------------|--|
| | | CRAB | FISH | SHRIMP | |
| | NUMBER | NUMBER | NUMBER | NUMBER | |
| FISHERMEN: | | | | | |
| ON VESSELS | - | 6 | 7 | 471 | |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | - | 18 | 4 | 231 | |
| CASUAL | 436 | - | - | - | |
| TOTAL | 436 | 24 | 11 | 702 | |
| VESSELS, MOTOR | - | 3 | 3 | 224 | |
| GROSS TONNAGE | - | 98 | 112 | 5,972 | |
| BOATS: | | | | | |
| MOTOR | 4 | 9 | 2 | 133 | |
| OTHER | 14 | - | - | - | |
| GEAR: | | | | | |
| NUMBER | 18 | 13 | 5 | 495 | |
| LENGTH, YARDS | 3,740 | - | - | - | |
| YARDS AT MOUTH | - | 221 | 98 | 8,711 | |
| ITEM | POTS AND TRAPS | | GILL NETS | | |
| | CRAB | FISH | ANCHOR, SET OR STAKE | DRIFT, SHAD | |
| | NUMBER | NUMBER | NUMBER | NUMBER | |
| FISHERMEN: | | | | | |
| ON VESSELS | - | 10 | - | - | |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | 112 | 61 | 14 | 10 | |
| CASUAL | - | - | 152 | 101 | |
| TOTAL | 112 | 71 | 166 | 111 | |
| VESSELS, MOTOR | - | 4 | - | - | |
| GROSS TONNAGE | - | 167 | - | - | |
| BOATS, MOTOR | 112 | 53 | 166 | 101 | |
| GEAR: | | | | | |
| NUMBER | 7,050 | 3,405 | 309 | 111 | |
| SQUARE YARDS | - | - | 42,883 | 14,936 | |
| ITEM | LINES | | | CAST NETS | |
| | HAND | LONG OR SET WITH HOOKS | TROT WITH BAITS | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | |
| FISHERMEN: | | | | | |
| ON VESSELS | 4 | - | - | - | |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | 24 | - | 163 | - | |
| CASUAL | 10 | 22 | - | 32 | |
| TOTAL | 38 | 22 | 163 | 32 | |
| VESSELS, MOTOR | 1 | - | - | - | |
| GROSS TONNAGE | 12 | - | - | - | |
| BOATS: | | | | | |
| MOTOR | 8 | 16 | 101 | 31 | |
| OTHER | - | - | 35 | 1 | |
| GEAR: | | | | | |
| NUMBER | 42 | 16 | 146 | 32 | |
| HOOKS OR BAITS | 84 | 4,000 | 102,000 | - | |
| ITEM | SPEARS | GRABS | RAKES | BY HAND | TOTAL, EXCLUSIVE OF DUPLI- CATION |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | |
| ON VESSELS | - | - | - | - | 473 |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | 16 | 173 | 10 | 98 | 793 |
| CASUAL | 5 | 20 | 24 | 17 | 776 |
| TOTAL | 21 | 193 | 34 | 115 | 2,042 |
| VESSELS, MOTOR | - | - | - | - | 224 |
| GROSS TONNAGE | - | - | - | - | 5,972 |
| BOATS: | | | | | |
| MOTOR | 13 | 174 | 29 | 104 | 975 |
| OTHER | - | 19 | 5 | 11 | 85 |
| GEAR, NUMBER | 21 | 193 | 34 | - | - |

SOUTH ATLANTIC FISHERIES

SOUTH CAROLINA - CATCH BY GEAR, 1961

| SPECIES | HAUL SEINES | | OTTER TRAWLS | | POTS AND TRAPS | |
|---|-------------|---------|--------------|-----------|----------------|----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BLUEFISH | 800 | \$96 | - | - | - | - |
| CATFISH AND BULLHEADS | - | - | - | - | 265,600 | \$25,704 |
| CROAKER | 2,800 | 112 | 10,500 | \$420 | - | - |
| DRUM, RED | 900 | 225 | - | - | - | - |
| FLOUNDERS | - | - | 66,400 | 13,260 | - | - |
| GRUNTS | - | - | 21,000 | 840 | - | - |
| KING WHITING OR "KINGFISH" | - | - | 144,800 | 14,480 | - | - |
| MULLET | 2,639,600 | 255,564 | - | - | - | - |
| POMPAHO | 48,600 | 19,440 | 1,100 | 275 | - | - |
| SEA BASS | - | - | 29,000 | 5,800 | 226,600 | 45,320 |
| SEA TROUT OR WEAKFISH: | - | - | - | - | - | - |
| GRAY | - | - | 23,300 | 1,142 | - | - |
| SPOTTED | 21,900 | 5,475 | - | - | - | - |
| SHAD | 2,800 | 896 | - | - | - | - |
| SHARKS, UNCLASSIFIED | 10,600 | 1,060 | 9,500 | 950 | - | - |
| SNAPPER, VERMILION | - | - | 25,000 | 1,250 | - | - |
| SPOT | 3,427,200 | 205,632 | 41,300 | 1,652 | - | - |
| UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD | 29,300 | 293 | 56,900 | 569 | - | - |
| CRABS, BLUE, HARD | - | - | 392,700 | 14,668 | 2,586,400 | 103,456 |
| SHRIMP | - | - | 3,684,400 | 1,293,688 | - | - |
| TOTAL | 6,384,500 | 468,793 | 4,705,900 | 1,349,014 | 3,098,600 | 174,480 |

| SPECIES | GILL NETS | | | | LINES | |
|--------------------------------------|----------------------|--------|--------|----------|---------|--------|
| | ANCHOR, SET OR STAKE | | DRIFT | | HAND | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BLUEFISH | - | - | - | - | 100 | \$12 |
| DRUM, BLACK | - | - | - | - | 3,000 | 180 |
| FLOUNDERS | - | - | - | - | 16,500 | 4,150 |
| GROUPERS | - | - | - | - | 5,900 | 295 |
| HICKORY SHAD | 1,000 | \$58 | - | - | - | - |
| KING MACKEREL | - | - | - | - | 1,300 | 182 |
| KING WHITING OR "KINGFISH" | - | - | - | - | 215,300 | 32,295 |
| SEA BASS | - | - | - | - | 68,600 | 13,134 |
| SEA TROUT OR WEAKFISH: | - | - | - | - | - | - |
| GRAY | - | - | - | - | 1,500 | 120 |
| SPOTTED | - | - | - | - | 20,000 | 5,000 |
| SHAD | 62,900 | 20,128 | 43,800 | \$14,016 | - | - |
| SHARKS, UNCLASSIFIED | - | - | - | - | 1,800 | 180 |
| SHEEPSHEAD, SALT-WATER | - | - | - | - | 15,200 | 1,216 |
| SNAPPER, RED | - | - | - | - | 113,000 | 16,043 |
| SPANISH MACKEREL | - | - | - | - | 4,000 | 558 |
| STURGEON | - | - | - | - | - | - |
| TOTAL | 114,700 | 28,622 | 43,800 | 14,016 | 466,300 | 73,365 |

| SPECIES | LINES - CONTINUED | | | | CAST NETS | |
|---------------------------------|------------------------|---------|-----------------|----------|-----------|---------|
| | LONG OR SET WITH HOOKS | | TROT WITH BAITS | | CAST NETS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| CATFISH AND BULLHEADS | 33,200 | \$2,988 | - | - | - | - |
| CRABS, BLUE, HARD | - | - | 1,693,000 | \$67,720 | - | - |
| SHRIMP | - | - | - | - | 22,400 | \$7,492 |
| TOTAL | 33,200 | 2,988 | 1,693,000 | 67,720 | 22,400 | 7,492 |

| SPECIES | SPEARS | | GRABS | | RAKES | | BY HAND | |
|---|--------|---------|-----------|-----------|---------|----------|-----------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| FLOUNDERS | 12,100 | \$2,420 | - | - | - | - | - | - |
| SEA TROUT OR WEAKFISH, SPOTTED | 14,200 | 2,640 | - | - | - | - | - | - |
| CLAMS, HARD, PUBLIC | - | - | - | - | 108,700 | \$38,045 | - | - |
| OYSTERS, MARKET, PRIVATE: | - | - | - | - | - | - | - | - |
| SPRING | - | - | 844,200 | \$369,750 | - | - | 857,200 | \$362,535 |
| FALL | - | - | 413,300 | 181,305 | - | - | 429,600 | 181,620 |
| TOTAL | 26,300 | 5,260 | 1,257,500 | 551,055 | 108,700 | 38,045 | 1,286,800 | 544,155 |

SOUTH ATLANTIC FISHERIES GEORGIA

213

OPERATING UNITS BY GEAR, 1961

| ITEM | HAUL SEINES, COMMON | OTTER TRAWLS | | POTS AND TRAPS | |
|------------------------------------|-------------------------|----------------|---------------|------------------------------|--|
| | | CRAB | SHRIMP | CRAB | FISH |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: ON VESSELS | - | 46 | 631 | - | - |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | 4 | 30 | 118 | 187 | 25 |
| CASUAL | 11 | - | 343 | 16 | 70 |
| TOTAL | 15 | 76 | 1,092 | 203 | 95 |
| VESSELS, MOTOR | - | 23 | 312 | - | - |
| GROSS TONNAGE | - | 562 | 9,027 | - | - |
| BOATS, MOTOR | 5 | 15 | 270 | 162 | 80 |
| GEAR: | | | | | |
| NUMBER | 5 | 46 | 769 | 9,960 | 597 |
| LENGTH, YARDS | 825 | - | - | - | - |
| YARDS AT MOUTH | - | 749 | 9,587 | - | - |
| ITEM | GILL NETS | | | LINES | |
| | ANCHOR, SET OR STAKE | DRIFT, SHAD | HAND | LONG OR SET WITH HOOKS | TROT WITH BAITS |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: ON VESSELS | - | - | 2 | - | - |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | 30 | 145 | - | 33 | 2 |
| CASUAL | 195 | 283 | 83 | 105 | - |
| TOTAL | 225 | 428 | 85 | 138 | 2 |
| VESSELS, MOTOR | - | - | 1 | - | - |
| GROSS TONNAGE | - | - | 43 | - | - |
| BOATS: | | | | | |
| MOTOR | 171 | 350 | 39 | 117 | 2 |
| OTHER | 2 | 10 | - | - | - |
| GEAR: | | | | | |
| NUMBER | 220 | 373 | 85 | 655 | 3 |
| SQUARE YARDS | 60,409 | 185,200 | - | - | - |
| HOOKS OR BAITS | - | - | 172 | 32,750 | 2,150 |
| ITEM | DIP NETS, DROP | CAST NETS | GRABS | BY HAND | TOTAL, EXCLUSIVE OF DUPLI- CATION |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: ON VESSELS | - | - | - | - | 633 |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | 45 | - | 40 | 18 | 510 |
| CASUAL | - | 3 | 9 | 9 | 885 |
| TOTAL | 45 | 3 | 49 | 27 | 2,028 |
| VESSELS, MOTOR | - | - | - | - | 313 |
| GROSS TONNAGE | - | - | - | - | 9,070 |
| BOATS: | | | | | |
| MOTOR | 39 | 3 | 18 | 10 | 985 |
| OTHER | - | - | 31 | 17 | 33 |
| GEAR, NUMBER | 2,975 | 3 | 49 | - | - |



SOUTH ATLANTIC FISHERIES

GEORGIA - CATCH BY GEAR, 1961

| SPECIES | HAUL SEINES | | OTTER TRAWLS | | POTS AND TRAPS | |
|---|-------------|-------|--------------|-----------|----------------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BOWFIN | - | - | - | - | 1,700 | \$102 |
| CATFISH AND BULLHEADS | - | - | - | - | 70,000 | 9,800 |
| DRUM: | | | | | | |
| BLAKEY | - | - | 900 | \$90 | - | - |
| RED | - | - | 1,000 | 150 | - | - |
| EELS, COMMON | - | - | - | - | 1,500 | 120 |
| FLOUNDERS | 1,300 | \$260 | 35,500 | 3,550 | - | - |
| KING WHITING OR "KINGFISH" | - | - | 246,800 | 19,744 | - | - |
| SEA BASS | - | - | 800 | 80 | - | - |
| SEA TROUT OR WEAKFISH, SPOTTED | 500 | 125 | - | - | - | - |
| SNAPPER, RED | - | - | 800 | - | - | - |
| SPOT | - | - | 100 | 6 | - | - |
| STRIPED BASS | - | - | 200 | 30 | - | - |
| STURGEON | - | - | 900 | 180 | - | - |
| UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD | - | - | 378,600 | 7,024 | - | - |
| CRABS, BLUE, HARD | - | - | 3,965,300 | 116,282 | 7,653,800 | 306,152 |
| SHRIMP | - | - | 6,806,600 | 2,369,648 | - | - |
| TOTAL | 1,600 | 385 | 11,437,500 | 2,516,984 | 7,727,000 | 316,174 |

| SPECIES | GILL NETS | | | | LINES | |
|--------------------------------|-------------------------|----------|---------|--------|--------|-------|
| | ANCHOR, SET OR STAKE | | DRIFT | | HAND | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| AMBERJACK | - | - | - | - | 500 | \$40 |
| BLUEFISH | - | - | - | - | 500 | 75 |
| BOWFIN | - | - | 3,200 | \$192 | - | - |
| CARP | - | - | 1,700 | 119 | - | - |
| GROUPEFS | - | - | - | - | 800 | 48 |
| HICKORY SHAD | - | - | 2,900 | 58 | - | - |
| SEA TROUT OR WEAKFISH, SPOTTED | - | - | - | - | 1,200 | 300 |
| SHAD | 182,200 | \$41,906 | 222,000 | 51,060 | - | - |
| SNAPPER, RED | - | - | - | - | 1,900 | 475 |
| STRIPED BASS | - | - | - | - | 1,200 | 240 |
| STURGEON | 2,900 | 560 | 300 | 60 | - | - |
| TOTAL | 185,100 | 42,486 | 230,100 | 51,489 | 6,100 | 1,178 |

| SPECIES | LINES - CONTINUED | | | | DIP NETS | |
|---------------------------------|---------------------------|----------|--------------------|---------|-------------|----------|
| | LONG OR SET WITH HOOKS | | TROT WITH BAITS | | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| CATFISH AND BULLHEADS | 69,100 | \$12,474 | - | - | - | - |
| CRABS, BLUE, HARD | - | - | 148,600 | \$5,944 | 544,500 | \$21,780 |
| TOTAL | 69,100 | 12,474 | 148,600 | 5,944 | 544,500 | 21,780 |

| SPECIES | CAST NETS | | GRABS | | BY HAND | |
|---------------------------|-----------|---------|--------|----------|---------|----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| SHRIMP | 3,500 | \$1,333 | - | - | - | - |
| OYSTERS, MARKET, PRIVATE: | | | | | | |
| SPRING | - | - | 47,900 | \$12,696 | 48,000 | \$12,718 |
| FALL | - | - | 31,300 | 11,118 | 31,300 | 11,118 |
| TOTAL | 3,500 | 1,333 | 79,200 | 23,814 | 79,300 | 23,836 |



BLUE CRAB

SOUTH ATLANTIC FISHERIES FLORIDA, EAST COAST

215

OPERATING UNITS BY GEAR, 1961

| ITEM | HAUL SEINES, COMMON | | PURSE SEINES | | OTTER TRAWLS, SHRIMP | POUND NETS | FYKE AND HOOP NETS, FISH | POTS AND TRAPS | |
|------------------------------------|------------------------|--------|--------------|--------|----------------------------|---------------|-----------------------------------|----------------|--|
| | | | MENHADEN | OTHER | | | | CRAB | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| FISHERMEN: ON VESSELS | - | 60 | - | 961 | - | - | - | 3 | |
| ON BOATS AND SHORE: | | | | | | | | | |
| REGULAR | 108 | - | 2 | 39 | 4 | 14 | 122 | 4 | |
| CASUAL | - | - | - | - | - | - | 26 | - | |
| TOTAL | 108 | 60 | 2 | 1,000 | 4 | 14 | 148 | 7 | |
| VESSELS, MOTOR | - | 3 | - | 442 | - | - | - | 1 | |
| GROSS TONNAGE | - | 422 | - | 16,623 | - | - | - | 21 | |
| BOATS: | | | | | | | | | |
| MOTOR | 28 | 6 | 1 | 23 | 2 | 10 | 146 | 3 | |
| OTHER | 8 | 3 | - | - | - | - | - | - | |
| GEAR: | | | | | | | | | |
| NUMBER | 28 | 3 | 1 | 868 | 5 | 174 | 11,540 | 850 | |
| LENGTH, YARDS | 12,070 | 1,200 | 200 | - | - | - | - | - | |
| YARDS AT MOUTH | - | - | - | 12,562 | - | - | - | - | |

| ITEM | POTS AND TRAPS - CONTINUED | | GILL NETS | | | | TRAMMEL NETS | LINES |
|------------------------------------|-------------------------------|-------------------|----------------------------|--------|--------|----------------|-----------------|-------|
| | FISH | LOBSTER, SPINY | ANCHOR, SET OR STAKE | DRIFT | | RUNA- ROUND | | HAND |
| | | | | NUMBER | NUMBER | | NUMBER |  | NUMBER |
| FISHERMEN: ON VESSELS | - | 13 | - | - | - | 19 | - | 102 |
| ON BOATS AND SHORE: | | | | | | | | |
| REGULAR | 166 | 88 | 8 | 21 | 31 | 373 | 23 | 239 |
| CASUAL | 34 | - | - | 5 | - | 53 | - | 404 |
| TOTAL | 200 | 101 | 8 | 26 | 31 | 445 | 23 | 745 |
| VESSELS, MOTOR | - | 5 | - | - | - | 6 | - | 38 |
| GROSS TONNAGE | - | 48 | - | - | - | 55 | - | 794 |
| BOATS: | | | | | | | | |
| MOTOR | 200 | 50 | 4 | 18 | 20 | 253 | 15 | 411 |
| OTHER | - | - | - | - | - | 47 | - | - |
| GEAR: | | | | | | | | |
| NUMBER | 7,195 | 13,360 | 20 | 18 | 20 | 306 | 15 | 745 |
| SQUARE YARDS | - | - | 12,500 | 21,700 | 22,200 | 530,250 | 14,400 | - |
| HOOKS | - | - | - | - | - | - | - | 875 |

| ITEM | LINES - CONTINUED | | CAST NETS | SPEARS | DREDGES, SCALLOP | TONGS | BY HAND | | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|------------------------------------|-------------------|------------------------------|--------------|--------|---------------------|--------|---------|-------|--|
| | TROLL | LONG OR SET WITH HOOKS | | | | | OYSTER | OTHER | |
| | | | NUMBER | NUMBER | NUMBER | NUMBER | | | NUMBER |
| FISHERMEN: ON VESSELS | 4 | - | - | - | 2 | - | - | - | 1,098 |
| ON BOATS AND SHORE: | | | | | | | | | |
| REGULAR | 220 | 430 | 7 | - | - | 5 | 17 | 6 | 1,452 |
| CASUAL | 230 | 73 | 10 | 1 | - | 2 | 2 | 1 | 574 |
| TOTAL | 454 | 503 | 17 | 1 | 2 | 7 | 19 | 7 | 3,124 |
| VESSELS, MOTOR | 1 | - | - | - | 1 | - | - | - | 469 |
| GROSS TONNAGE | 19 | - | - | - | 33 | - | - | - | 17,075 |
| BOATS: | | | | | | | | | |
| MOTOR | 316 | 503 | 16 | - | - | 5 | 17 | 7 | 1,483 |
| OTHER | - | - | - | - | - | - | - | - | 58 |
| GEAR: | | | | | | | | | |
| NUMBER | 533 | 519 | 17 | 1 | 1 | 7 | - | - | - |
| HOOKS | 533 | 518,600 | - | - | - | - | - | - | - |
| YARDS AT MOUTH | - | - | - | - | 3 | - | - | - | - |

NOTE: -- INCLUDES OPERATING UNITS FOR THE INLAND LAKES OF FLORIDA.



SOUTH ATLANTIC FISHERIES

FLORIDA, EAST COAST - CATCH BY GEAR, 1961

| SPECIES | HAUL SEINES | | PURSE SEINES | | OTTER TRAWLS | |
|--|-------------|---------|--------------|---------|--------------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BALLYHOO | - | - | 3,400 | \$476 | - | - |
| BLUEFISH | 300 | \$29 | - | - | - | - |
| BLUE RUNNER | 700 | 49 | - | - | - | - |
| CABIO | - | - | - | - | 300 | \$26 |
| CREVALLE | 300 | 9 | - | - | - | - |
| CROAKER | 23,500 | 3,055 | - | - | - | - |
| DRUM: | | | | | | |
| BLACK | 38,200 | 3,056 | - | - | 200 | 16 |
| RED | 21,400 | 2,932 | - | - | - | - |
| FLOUNDERS | 300 | 44 | - | - | 165,800 | 24,207 |
| KING WHITING OR "KINGFISH" | 307,600 | 25,531 | - | - | 663,400 | 55,062 |
| MENHADEN | 6,900 | 172 | 32,548,600 | 262,934 | - | - |
| MOJARRA | 58,500 | 5,031 | - | - | - | - |
| MULLET, BLACK | 3,100 | 149 | - | - | - | - |
| POMPANO | 600 | 420 | - | - | - | - |
| SEA CATFISH | 13,200 | 792 | - | - | - | - |
| SEA TROUT OR WEAKFISH: | | | | | | |
| GRAY | 100 | 11 | - | - | - | - |
| SPOTTED | 1,000 | 239 | - | - | - | - |
| SHAD | 320,300 | 52,529 | - | - | - | - |
| SNAPPER, MANGROVE | 400 | 73 | - | - | - | - |
| SPANISH MACKEREL | 500 | 52 | - | - | - | - |
| SPOT | 74,200 | 8,607 | - | - | 16,500 | 1,914 |
| TRIPLETAIL | 5,800 | 313 | - | - | - | - |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | 11,700 | 795 | - | - | 19,300 | 1,312 |
| BAIT, REDUCTION, AND ANIMAL FOOD | 130,000 | 2,859 | - | - | 249,300 | 5,485 |
| CRABS, BLUE, HARD | - | - | - | - | 87,100 | 4,006 |
| SHRIMP | - | - | - | - | 6,007,200 | 2,434,014 |
| SQUID | - | - | - | - | 3,900 | 585 |
| TURTLES: | | | | | | |
| GREEN | - | - | - | - | 200 | 30 |
| LOGGERHEAD | - | - | - | - | 1,000 | 150 |
| TOTAL | 1,018,600 | 106,747 | 32,552,000 | 263,410 | 7,214,200 | 2,526,807 |

| SPECIES | POUND NETS | | FYKE AND HOOP NETS | | POTS AND TRAPS | |
|---------------------------------|------------|---------|--------------------|----------|----------------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| CATFISH AND BULLHEADS | 61,600 | \$8,193 | 307,800 | \$40,938 | 2,971,700 | \$411,748 |
| CRABS: | | | | | | |
| BLUE: | | | | | | |
| HARD | - | - | - | - | 7,398,500 | 340,332 |
| SOFT AND PEELER | - | - | - | - | 400 | 200 |
| STONE | - | - | - | - | 25,300 | 8,729 |
| LOBSTERS, SPINY | - | - | - | - | 702,000 | 248,507 |
| TOTAL | 61,600 | 8,193 | 307,800 | 40,938 | 11,097,900 | 1,009,516 |

| SPECIES | GILL NETS | | | | | |
|--------------------------------------|----------------------|-------|--------|--------|-----------|----------|
| | ANCHOR, SET OR STAKE | | DRIFT | | RUNAROUND | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | - | - | 2,200 | \$66 | - | - |
| BLUEFISH | - | - | 42,300 | 4,018 | 764,700 | \$72,646 |
| BLUE RUNNER | - | - | - | - | 1,500 | 105 |
| CREVALLE | - | - | - | - | 30,400 | 912 |
| CROAKER | - | - | - | - | 75,900 | 9,867 |
| DRUM: | | | | | | |
| BLACK | - | - | - | - | 9,300 | 744 |
| RED | - | - | - | - | 71,700 | 9,823 |
| FLOUNDERS | - | - | - | - | 200 | 30 |
| KING MACKEREL | - | - | - | - | 15,800 | 2,054 |
| KING WHITING OR "KINGFISH" | - | - | - | - | 66,000 | 5,479 |
| MENHADEN | - | - | 3,000 | 75 | 386,600 | 9,663 |
| MOJARRA | - | - | - | - | 7,400 | 636 |
| MULLET: | | | | | | |
| BLACK | - | - | 10,000 | 480 | 2,618,000 | 125,664 |
| SILVER | - | - | - | - | 182,700 | 12,241 |
| PERMIT | - | - | - | - | 300 | 30 |
| PIGFISH | - | - | - | - | 3,000 | 300 |
| POMPANO | - | - | 18,400 | 12,880 | 28,000 | 19,600 |
| SEA CATFISH | - | - | - | - | 3,500 | 210 |
| SEA TROUT OR WEAKFISH: | | | | | | |
| GRAY | 100 | \$11 | 6,400 | 678 | 39,500 | 4,187 |
| SPOTTED | 500 | 120 | 15,700 | 3,752 | 668,300 | 159,722 |

(CONTINUED ON NEXT PAGE)

SOUTH ATLANTIC FISHERIES

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FLORIDA, EAST COAST - CATCH BY GEAR, 1961 - Continued

| SPECIES | GILL NETS | | | | | |
|--|----------------------|---------|-----------|----------|-----------|---------|
| | ANCHOR, SET OR STAKE | | DRIFT | | RUNAROUND | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| SHAD. | 37,800 | \$6,199 | 67,200 | \$11,021 | - | - |
| SHEEPSHEAD, SALT-WATER. | - | - | - | - | 31,000 | \$2,107 |
| SNAPPER, MANGROVE. | - | - | - | - | 4,500 | 823 |
| SPANISH MACKEREL. | - | - | 1,800 | 185 | 3,058,800 | 315,057 |
| SPOT. | - | - | - | - | 808,600 | 93,796 |
| TENPOUNDER. | - | - | - | - | 400 | 12 |
| TRIPLETAIL. | - | - | - | - | 3,000 | 162 |
| UNCLASSIFIED: FOR FOOD. | - | - | 4,800 | 326 | 211,600 | 14,389 |
| BAIT, REDUCTION, AND ANIMAL FOOD. | - | - | 6,500 | 143 | 94,700 | 2,083 |
| TOTAL. | 38,400 | 6,330 | 178,300 | 33,624 | 9,185,400 | 862,342 |
| SPECIES | LINES | | | | | |
| | TRAMMEL NETS | | HAND | | TROLL | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| AMBERJACK. | - | - | 5,200 | \$208 | - | - |
| BARRACUDA. | - | - | 400 | 13 | - | \$16 |
| BLUEFISH. | 1,000 | \$96 | 75,000 | 7,124 | 95,800 | 9,103 |
| BLUE RUNNER. | 400 | 28 | 33,200 | 2,324 | 2,700 | 169 |
| BONITO. | - | - | - | - | 600 | 36 |
| CABIO. | - | - | 6,500 | 566 | - | - |
| CREVALLE. | 7,300 | 219 | 50,000 | 1,500 | - | - |
| CROAKER. | 18,300 | 2,379 | 25,000 | 3,250 | - | - |
| DOLPHIN. | - | - | 100 | 12 | 7,000 | 811 |
| DRUM: BLACK. | 3,400 | 272 | 12,400 | 992 | - | - |
| RED. | 1,200 | 164 | 20,200 | 2,766 | - | - |
| FLOUNDERS. | - | - | 2,700 | 395 | - | - |
| GROUPERS. | - | - | 256,900 | 28,259 | - | - |
| GRUNTS. | - | - | 24,200 | 1,767 | - | - |
| HOGFISH. | - | - | 1,600 | 272 | - | - |
| JEWFISH. | - | - | 16,200 | 1,265 | - | - |
| KING MACKEREL. | - | - | 28,000 | 3,640 | 2,032,300 | 264,199 |
| KING WHITING OR "KINGFISH". | 2,000 | 166 | 22,300 | 1,853 | - | - |
| MENHADEN. | 5,000 | 125 | - | - | - | - |
| MOJARRA. | 15,800 | 1,359 | 62,800 | 5,402 | - | - |
| MULLET: BLACK. | 4,000 | 192 | - | - | - | - |
| SILVER. | 2,400 | 161 | - | - | - | - |
| PERMIT. | - | - | 100 | 10 | - | - |
| PIGFISH. | - | - | 300 | 30 | - | - |
| POMPANO. | 93,900 | 65,730 | 24,600 | 17,220 | - | - |
| SCUP OR FORGY. | - | - | 11,700 | 620 | - | - |
| SEA BASS. | - | - | 22,900 | 2,358 | - | - |
| SEA CATFISH. | - | - | 900 | 54 | - | - |
| SEA TROUT OR WEAKFISH: GRAY. | - | - | 7,900 | 837 | 3,200 | 339 |
| SPOTTED. | 1,000 | 240 | 51,100 | 12,214 | 11,900 | 2,847 |
| SHEEPSHEAD, SALT-WATER. | - | - | 22,800 | 1,551 | - | - |
| SNAPPER: MANGROVE. | - | - | 47,400 | 8,676 | - | - |
| MUTTON. | - | - | 46,000 | 9,660 | - | - |
| RED. | - | - | 678,200 | 187,183 | - | - |
| VERMILION. | - | - | 19,900 | 4,975 | - | - |
| YELLOWTAIL. | - | - | 95,000 | 23,276 | - | - |
| SPANISH MACKEREL. | 1,000 | 103 | 41,000 | 4,223 | 55,200 | 5,687 |
| SPOT. | 8,600 | 998 | 20,700 | 2,401 | - | - |
| TENPOUNDER. | - | - | 1,800 | 54 | - | - |
| TRIGGERFISH. | - | - | 3,000 | 180 | - | - |
| TRIPLETAIL. | - | - | 2,000 | 108 | - | - |
| WARSAW. | - | - | 7,400 | 518 | - | - |
| UNCLASSIFIED: FOR FOOD. | 1,000 | 68 | 28,700 | 1,952 | 3,200 | 218 |
| BAIT, REDUCTION, AND ANIMAL FOOD. | - | - | 12,400 | 273 | - | - |
| TOTAL. | 166,300 | 72,300 | 1,788,500 | 339,983 | 2,212,400 | 283,445 |

(CONTINUED ON NEXT PAGE)

SOUTH ATLANTIC FISHERIES

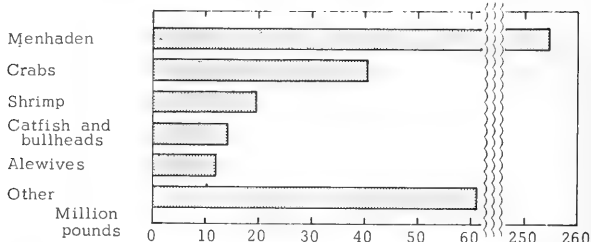
FLORIDA, EAST COAST - CATCH BY GEAR, 1961 - Continued

| SPECIES | LINES - CONTINUED | | CAST NETS | | SPEARS | |
|--------------------------------|------------------------|-------------|-----------|-------|--------|-------|
| | LONG OR SET WITH HOOKS | | | | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| CATFISH AND BULLHEADS. | 9,342,300 | \$1,299,644 | - | - | - | - |
| FLOUNDERS. | - | - | - | - | 200 | \$29 |
| MOJARRA. | - | - | 1,500 | \$129 | - | - |
| MULLET, BLACK. | - | - | 9,100 | 437 | - | - |
| SHRIMP. | - | - | 8,300 | 3,336 | - | - |
| TURTLES, SOFT-SHELL. | 457,900 | 22,695 | - | - | - | - |
| TOTAL. | 9,800,200 | 1,322,539 | 18,900 | 3,904 | 200 | 29 |

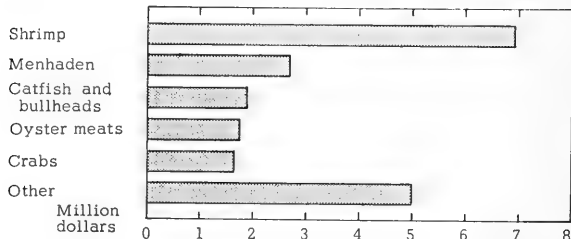
| SPECIES | DREDGES | | TONGS | | BY HAND | |
|------------------------------|---------|---------|--------|---------|---------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| CLAMS, HARD, PUBLIC. | - | - | - | - | 4,200 | \$1,366 |
| CONCHS. | - | - | - | - | 200 | 60 |
| OYSTERS, MARKET: | | | | | | |
| PUBLIC: | | | | | | |
| SPRING. | - | - | 15,600 | \$4,645 | 13,000 | 3,821 |
| FALL. | - | - | 2,700 | 794 | 6,700 | 1,970 |
| PRIVATE: | | | | | | |
| SPRING. | - | - | 3,300 | 970 | 12,700 | 3,733 |
| FALL. | - | - | 2,100 | 617 | 16,300 | 4,793 |
| SCALLOPS, CALICO. | 3,600 | \$1,440 | - | - | - | - |
| TOTAL. | 3,600 | 1,440 | 23,900 | 7,026 | 53,100 | 15,763 |

NOTE:--INCLUDES THE CATCH FOR THE INLAND LAKES OF FLORIDA.

SOUTH ATLANTIC STATES CATCH, 1961



VALUE OF SOUTH ATLANTIC STATES CATCH, 1961



SOUTH ATLANTIC FISHERIES

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SUPPLEMENTARY TABLES

FLORIDA - OPERATING UNITS BY DISTRICTS, 1961

| ITEM | EAST COAST | WEST COAST | TOTAL, EXCLUSIVE OF DUPLICATION |
|------------------------------------|---------------|---------------|---------------------------------------|
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: | | | |
| ON VESSELS | 1,098 | 3,411 | 4,152 |
| ON BOATS AND SHORE: | | | |
| REGULAR | 1,452 | 2,678 | 4,130 |
| CASUAL | 574 | 1,300 | 1,874 |
| TOTAL | 3,124 | 7,389 | 10,156 |
| | | | |
| VESSELS, MOTOR | 469 | 1,141 | 1,433 |
| GROSS TONNAGE | 17,075 | 46,132 | 55,580 |
| BOATS: | | | |
| MOTOR | 1,483 | 2,946 | 4,429 |
| OTHER | 58 | 229 | 287 |
| GEAR: | | | |
| HAUL SEINES, COMMON | 28 | 53 | 81 |
| LENGTH, YARDS | 12,070 | 38,500 | 50,570 |
| PURSE SEINES: | | | |
| MENHADEN | 3 | 2 | 5 |
| LENGTH, YARDS | 1,200 | 800 | 2,000 |
| OTHER | 1 | 2 | 3 |
| LENGTH, YARDS | 200 | 400 | 600 |
| OTTER TRAWLS, SHRIMP | 868 | 1,750 | 2,294 |
| YARDS AT MOUTH | 12,562 | 26,868 | 34,813 |
| POUND NETS, FISH | 5 | - | 5 |
| FYKE AND HOOP NETS, FISH | 174 | - | 174 |
| POTS AND TRAPS: | | | |
| CRAB: | | | |
| BLUE | 11,540 | 30,358 | 41,898 |
| OTHER | 650 | 13,604 | 14,454 |
| FISH | 7,195 | 216 | 7,411 |
| LOBSTERS, SPINY | 13,360 | 38,990 | 52,100 |
| GILL NETS: | | | |
| ANCHOR, SET OR STAKE | 20 | 7 | 27 |
| SQUARE YARDS | 12,500 | 3,600 | 16,100 |
| DRIFT: | | | |
| SHAD | 18 | - | 18 |
| SQUARE YARDS | 21,700 | - | 21,700 |
| OTHER | 20 | 22 | 42 |
| SQUARE YARDS | 22,200 | 61,500 | 83,700 |
| RUNAROUND | 306 | 981 | 1,285 |
| SQUARE YARDS | 530,250 | 1,374,340 | 1,896,290 |
| TRAWL NETS | 15 | 288 | 303 |
| SQUARE YARDS | 14,400 | 358,970 | 373,370 |
| LINES: | | | |
| HAND | 745 | 2,605 | 3,399 |
| HOOKS | 875 | 5,816 | 6,674 |
| TROLL | 533 | 1,648 | 2,181 |
| HOOKS | 533 | 1,648 | 2,181 |
| LONG OR SET WITH HOOKS | 519 | 23 | 542 |
| HOOKS | 518,600 | 19,640 | 538,240 |
| TROT WITH BAITS | - | 46 | 46 |
| BAITS | - | 29,100 | 29,100 |
| DIP NETS: | | | |
| COMMON | - | 37 | 37 |
| DROP | - | 60 | 60 |
| CAST NETS | 17 | 30 | 47 |
| SPEARS | 1 | 50 | 51 |
| DREDGES, SCALLOP | 1 | 32 | 33 |
| YARDS AT MOUTH | 3 | 32 | 35 |
| TONGS: | | | |
| OYSTER | 7 | 569 | 576 |
| OTHER | - | 2 | 2 |
| RAKES | - | 6 | 6 |
| HOOKS, SPONGE | - | 84 | 84 |
| DIVING OUTFITS, SPONGE | - | 12 | 12 |

NOTE:--A TOTAL OF 445 FISHERMEN OPERATING IN 445 MOTOR BOATS FISHED 6,595 FISH POTS AND TRAPS AND 440 TROT LINES WITH 456,600 HOOKS IN THE INLAND LAKES OF FLORIDA. THESE OPERATING UNITS ARE INCLUDED WITH THOSE OF THE EAST COAST OF FLORIDA.



SOUTH ATLANTIC FISHERIES

FLORIDA - CATCH BY DISTRICTS, 1961

| SPECIES | EAST COAST | | WEST COAST | | TOTAL | |
|---|------------|-----------|------------|------------|-------------|------------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| FISH | | | | | | |
| ALEMIVES | 2,200 | \$66 | 260,600 | \$11,232 | 263,000 | \$11,298 |
| AMBERJACK | 5,200 | 206 | 6,900 | 311 | 12,100 | 519 |
| BALLYHOO | 3,400 | 476 | 61,600 | 8,652 | 65,200 | 9,128 |
| BARRACUDA | 900 | 29 | 8,500 | 451 | 9,400 | 480 |
| BLUEFISH | 979,100 | 93,016 | 629,900 | 68,629 | 1,603,000 | 161,645 |
| BLUE RUNNER | 38,800 | 2,695 | 946,600 | 39,756 | 985,100 | 42,451 |
| BONITO | 6,600 | 36 | 2,500 | 150 | 3,100 | 186 |
| CABIO | 6,800 | 592 | 15,000 | 841 | 21,800 | 1,433 |
| CATFISH AND BULLHEADS | 12,683,400 | 1,760,523 | 21,600 | 3,445 | 12,705,200 | 1,763,968 |
| CIGARFISH | - | - | 323,100 | 22,617 | 323,100 | 22,617 |
| CREVALLE | 88,000 | 2,640 | 535,400 | 14,975 | 623,400 | 17,615 |
| CROAKER | 142,700 | 18,551 | 23,000 | 1,893 | 165,700 | 20,434 |
| DOLPHIN | 7,100 | 823 | 23,700 | 1,469 | 30,600 | 2,292 |
| DRUM: | | | | | | |
| BLACK | 63,500 | 5,060 | 74,900 | 3,296 | 138,400 | 8,376 |
| RED | 114,500 | 15,687 | 647,500 | 95,771 | 962,000 | 111,458 |
| FLOUNDERS | 169,200 | 24,705 | 148,500 | 24,502 | 317,700 | 49,207 |
| GROUPEFS | 256,900 | 28,259 | 6,370,500 | 643,420 | 6,627,400 | 671,679 |
| GRUNTS | 24,200 | 1,767 | 85,300 | 5,374 | 109,500 | 7,141 |
| HOGFISH | 1,600 | 272 | 35,300 | 5,260 | 36,900 | 5,532 |
| JEWFISH | 16,200 | 1,265 | 50,600 | 3,642 | 66,800 | 4,907 |
| KING MACKEREL | 2,076,100 | 269,893 | 1,683,100 | 175,043 | 3,759,200 | 444,935 |
| KING WHITING OR "KINGFISH" | 1,061,300 | 88,091 | 178,700 | 11,614 | 1,240,000 | 99,705 |
| MEHJADEN | 32,950,100 | 272,969 | 3,375,200 | 32,160 | 36,325,300 | 305,129 |
| MOJARRA | 146,000 | 12,557 | 76,000 | 4,559 | 222,000 | 17,116 |
| MULLET: | | | | | | |
| BLACK | 2,644,200 | 126,922 | 32,964,000 | 1,813,022 | 35,608,200 | 1,939,944 |
| SILVER | 185,100 | 12,402 | 470,600 | 29,650 | 655,700 | 42,052 |
| PERMIT | 400 | 40 | 19,600 | 1,864 | 20,000 | 1,904 |
| FIFISH | 3,300 | 330 | 4,300 | 304 | 7,600 | 634 |
| POMFANO | 165,500 | 115,850 | 528,000 | 374,880 | 693,500 | 490,730 |
| SCUP OR PORGY | 11,700 | 620 | 48,400 | 3,532 | 60,100 | 4,152 |
| SEA BASS | 22,900 | 2,358 | - | - | 22,900 | 2,358 |
| SEA CATFISH | 17,600 | 1,056 | 225,400 | 14,202 | 243,000 | 15,258 |
| SEA TROUT OR WEAKFISH: | | | | | | |
| GRAY | 57,200 | 6,063 | - | - | 57,200 | 6,063 |
| SPOTTED | 749,500 | 179,134 | 2,380,800 | 557,108 | 3,130,300 | 736,242 |
| WHITE | - | - | 251,500 | 22,685 | 251,500 | 22,685 |
| SHAD | 425,300 | 69,749 | - | - | 425,300 | 69,749 |
| SHARKS, UNCLASSIFIED | - | - | 685,200 | 11,649 | 685,200 | 11,649 |
| SHEEPSHEAD, SALT-WATER | 53,800 | 3,658 | 63,600 | 5,596 | 117,400 | 9,254 |
| SNAPPER: | | | | | | |
| MANGROVE | 52,300 | 9,572 | 262,100 | 40,100 | 314,400 | 49,672 |
| MUTTON | 46,000 | 9,660 | 89,900 | 17,622 | 135,900 | 27,282 |
| RED | 678,200 | 187,183 | 5,445,900 | 1,446,609 | 6,124,100 | 1,635,792 |
| VERMILION | 19,900 | 4,975 | 21,600 | 3,688 | 41,500 | 8,663 |
| YELLOWTAIL | 95,000 | 23,276 | 639,900 | 140,778 | 734,900 | 164,054 |
| SPANISH MACKEREL | 3,158,300 | 325,307 | 3,988,100 | 382,859 | 7,146,400 | 708,166 |
| SPANISH SARDINE | - | - | 36,500 | 730 | 36,500 | 730 |
| SPOT | 928,600 | 107,716 | 233,700 | 12,619 | 1,162,300 | 120,335 |
| STURGEON | - | - | 13,700 | 2,343 | 13,700 | 2,343 |
| TENPOUNDER | 2,200 | 66 | 388,600 | 12,822 | 390,800 | 12,888 |
| TILEFISH | - | - | 1,200 | 120 | 1,200 | 120 |
| TRIGGERFISH | 3,000 | 180 | 6,500 | 332 | 9,500 | 512 |
| TRIPLETAIL | 10,800 | 583 | 2,700 | 148 | 13,500 | 731 |
| WARSAW | 7,400 | 518 | 188,100 | 10,723 | 195,500 | 11,241 |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | 280,300 | 19,060 | 918,300 | 68,872 | 1,198,600 | 87,932 |
| BAIT, REDUCTION, AND ANIMAL FOOD | 492,900 | 10,843 | 554,100 | 12,745 | 1,047,000 | 23,588 |
| TOTAL FISH | 60,948,900 | 3,817,321 | 66,230,900 | 6,169,054 | 127,179,800 | 9,986,375 |
| SHELLFISH, ETC. | | | | | | |
| CRABS: | | | | | | |
| BLUE: | | | | | | |
| HARD | 7,485,600 | 344,338 | 17,129,500 | 736,573 | 24,615,100 | 1,080,911 |
| SOFT AND PEELER | 400 | 200 | 5,100 | 2,850 | 5,500 | 2,790 |
| STONE | 25,300 | 6,729 | 453,300 | 159,935 | 478,600 | 164,664 |
| TOTAL CRABS | 7,511,300 | 353,267 | 17,587,900 | 895,058 | 25,099,200 | 1,248,325 |
| LOBSTERS, SPINY | 702,000 | 248,507 | 2,101,400 | 720,780 | 2,803,400 | 969,287 |
| SHRIMP | 6,015,500 | 2,437,352 | 36,066,600 | 11,093,751 | 42,082,100 | 13,531,103 |
| CLAMS, HARD, PUBLIC | 4,200 | 1,386 | 15,200 | 5,462 | 19,400 | 6,846 |
| CONCHS | 200 | 60 | 1,400 | 420 | 1,600 | 480 |

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SOUTH ATLANTIC FISHERIES

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FLORIDA - CATCH BY DISTRICTS, 1961 - Continued

| SPECIES | EAST COAST | | WEST COAST | | TOTAL | |
|-----------------------------|------------|-----------|-------------|------------|-------------|------------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| SHELLFISH, ETC. - CONTINUED | | | | | | |
| OYSTERS, MARKET: | | | | | | |
| PUBLIC: | | | | | | |
| SPRING | 28,800 | \$8,466 | 773,000 | \$245,041 | 801,800 | \$253,507 |
| FALL | 9,400 | 2,764 | 1,725,600 | 547,015 | 1,735,000 | 549,779 |
| PRIVATE: | | | | | | |
| SPRING | 16,000 | 4,703 | 424,600 | 134,598 | 440,600 | 139,301 |
| FALL | 18,400 | 5,410 | 330,900 | 104,895 | 349,300 | 110,305 |
| TOTAL OYSTERS | 72,600 | 21,343 | 3,254,100 | 1,031,549 | 3,326,700 | 1,052,892 |
| SCALLOPS: | | | | | | |
| BAY | - | - | 36,300 | 13,902 | 36,300 | 13,902 |
| CALICO | 3,600 | 1,440 | - | - | 3,600 | 1,440 |
| SQUID | 3,900 | 585 | 13,200 | 1,069 | 17,100 | 1,654 |
| TURTLES: | | | | | | |
| GREEN | 200 | 30 | 30,300 | 4,539 | 30,500 | 4,569 |
| LOGGERHEAD | 1,000 | 150 | 2,700 | 405 | 3,700 | 555 |
| SOFT-SHELL | 457,900 | 22,895 | - | - | 457,900 | 22,895 |
| SPONGES: | | | | | | |
| GRASS | - | - | 100 | 801 | 100 | 801 |
| SHEEPSWOL | - | - | 35,500 | 361,587 | 35,500 | 361,587 |
| YELLOW | - | - | 1,300 | 4,258 | 1,300 | 4,258 |
| TOTAL SHELLFISH, ETC. . | 14,772,400 | 3,087,015 | 59,148,000 | 14,133,581 | 73,920,400 | 17,220,596 |
| GRAND TOTAL | 75,721,300 | 6,904,336 | 125,378,900 | 20,302,635 | 201,100,200 | 27,206,971 |

NOTE:--THE CATCH OF 10,513,200 POUNDS OF CATFISH AND BULLHEADS (VALUED AT \$1,471,848) AND 444,500 POUNDS OF SOFT-SHELL TURTLES (VALUED AT \$22,225) TAKEN FROM THE INLAND LAKES IS INCLUDED WITH THE CATCH FOR THE EAST COAST OF FLORIDA.



SHRIMP TRAWLER

SOUTH ATLANTIC FISHERIES

SOUTH ATLANTIC SHRIMP FISHERY

Landings of shrimp at ports in the South Atlantic States during 1961 totaled 11.8 million pounds, heads-off weight, with a dockside value of \$6.9 million. Compared with the previous year, this was a decline of 37 percent in volume and 18 percent in value. The 1961 landings were the smallest for any year in which data have been collected by the Bureau of Commercial Fisheries in the South Atlantic States since 1918.

Georgia again led in the production of shrimp with landings of 4.1 million pounds, heads-off, followed by East Coast of Florida, 3.6 million; South Carolina, 2.3 million; and North Carolina, 1.8 million.

The average price per pound, heads-off, for shrimp delivered at the dock, all States combined, increased from approximately 46 cents during 1960, to 59 cents during 1961. The increase in price only partly compensated for the greatly reduced catches.

A comparison of the species composition of the 1960 and 1961 landings indicates that the greatest decline occurred in landings of brown shrimp (*Penaeus aztecus*), which decreased over 4 million pounds, or 72 percent; and white shrimp (*Penaeus setiferus*) down 3 million pounds, or 25 percent. A slight increase of 326,000 pounds occurred in the landings of pink shrimp (*Penaeus duorarum*).

There were no significant changes in the count size composition of the landings as compared with the previous year. The 31-40 (heads-off) count size category accounted for 26 percent of the landings; 26-30 count, 23 percent; and 15-25 count, 21 percent. The remaining 30 percent of the landings consisted of 41-and-over count shrimp.

The quantities shown in the following tables are based on the heads-off weight of the shrimp and are not directly comparable with the volume data published in the General Review, regional tables, or the Review of Certain Major Fisheries, which represent the round weight or the catch. The pounds of heads-off shrimp may be converted to heads-on weight by multiplying by 1.68.

Information on the landings of shrimp in the South Atlantic States contained in the following tables has been previously published in Current Fishery Statistics No. 2957. Monthly data on landings of shrimp in the Gulf States by species, size, volume, and landed value in each State; the number of fishing trips; days fished; and the catch by area, depth, and size of shrimp are included in Section 6 of this Digest.



SUMMARY OF SHRIMP LANDINGS, 1961

| SIZE | BROWN | | PINK | | WHITE | | TOTAL | |
|-------------------|-----------|----------|-----------|----------|-----------|-----------|------------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| 15 - 20 | 74,404 | \$54,314 | 47,016 | \$34,250 | 321,790 | \$266,387 | 443,210 | \$354,951 |
| 21 - 25 | 118,935 | 78,791 | 27,465 | 18,401 | 1,827,830 | 1,352,488 | 1,974,230 | 1,449,680 |
| 26 - 30 | 479,484 | 286,297 | 56,990 | 34,193 | 2,218,356 | 1,509,433 | 2,754,830 | 1,829,923 |
| 31 - 40 | 484,818 | 246,563 | 231,061 | 120,084 | 2,384,959 | 1,452,374 | 3,100,838 | 1,819,021 |
| 41 - 50 | 233,039 | 96,889 | 299,560 | 131,430 | 1,157,491 | 600,633 | 1,690,090 | 828,952 |
| 51 - 67 | 124,585 | 42,922 | 272,055 | 93,708 | 682,615 | 290,414 | 1,079,255 | 427,044 |
| 68 AND OVER . . . | 34,806 | 8,704 | 158,242 | 39,987 | 519,542 | 180,862 | 712,590 | 229,553 |
| TOTAL | 1,550,071 | 814,480 | 1,092,389 | 472,053 | 9,112,583 | 5,652,591 | 11,755,043 | 6,939,124 |

SOUTH ATLANTIC FISHERIES

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NORTH CAROLINA SHRIMP LANDINGS, BY MONTHS, 1961

| SPECIES AND SIZE | JANUARY | | FEBRUARY | | MARCH | | APRIL | | MAY | |
|-------------------|---------|----------|-----------|---------|----------|----------|-----------|-----------|--------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| PINK: | | | | | | | | | | |
| 15 - 20 | 146 | \$91 | 50 | \$31 | - | - | - | - | - | - |
| 41 - 50 | - | - | - | - | - | - | - | - | 8,022 | \$4,165 |
| 51 - 67 | - | - | - | - | - | - | - | - | 12,721 | 5,343 |
| TOTAL | 146 | 91 | 50 | 31 | - | - | - | - | 20,743 | 9,508 |
| TOTAL, 1961 . . | 146 | 91 | 50 | 31 | - | - | - | - | 20,743 | 9,508 |
| TOTAL, 1960 . . | 1,251 | 550 | 520 | 239 | - | - | 622 | \$298 | 96,756 | 35,975 |
| SPECIES AND SIZE | JUNE | | JULY | | AUGUST | | SEPTEMBER | | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | | |
| BROWN: | | | | | | | | | | |
| 15 - 20 | - | - | - | - | 24,744 | \$18,062 | 40,781 | \$29,769 | | |
| 21 - 25 | - | - | - | - | 35,476 | 23,768 | 10,553 | 7,072 | | |
| 26 - 30 | - | - | - | - | 68,166 | 41,268 | 8,043 | 4,906 | | |
| 31 - 40 | - | - | 12,009 | \$6,243 | 118,139 | 55,969 | 31,209 | 16,853 | | |
| 41 - 50 | - | - | 58,445 | 25,131 | 32,361 | 12,358 | 18,210 | 8,195 | | |
| 51 - 67 | - | - | 9,607 | 3,170 | 10,183 | 3,343 | 17,868 | 6,075 | | |
| 68 AND OVER . . | - | - | - | - | 5,739 | 1,434 | 7,068 | 1,768 | | |
| TOTAL | - | - | 80,061 | 34,544 | 295,008 | 156,212 | 133,732 | 74,638 | | |
| PINK: | | | | | | | | | | |
| 15 - 20 | - | - | - | - | 11,030 | 8,001 | 16,595 | 12,115 | | |
| 21 - 25 | - | - | - | - | 18,400 | 12,328 | 7,118 | 4,769 | | |
| 26 - 30 | - | - | 18,976 | 11,005 | 30,120 | 18,371 | 3,809 | 2,324 | | |
| 31 - 40 | - | - | 85,992 | 44,716 | 49,465 | 23,744 | 6,981 | 3,768 | | |
| 41 - 50 | 60,757 | \$27,340 | 162,206 | 69,749 | 10,455 | 4,020 | 6,604 | 2,972 | | |
| 51 - 67 | 73,995 | 25,897 | 62,529 | 20,635 | 5,306 | 1,750 | 8,336 | 3,003 | | |
| 68 AND OVER . . | 27,019 | 6,756 | 17,800 | 4,452 | 3,073 | 767 | 5,957 | 1,491 | | |
| TOTAL | 161,771 | 59,993 | 347,503 | 150,557 | 127,849 | 68,981 | 55,900 | 30,442 | | |
| WHITE: | | | | | | | | | | |
| 26 - 30 | - | - | - | - | - | - | 3,256 | 1,987 | | |
| 31 - 40 | - | - | - | - | - | - | 27,114 | 14,641 | | |
| 41 - 50 | - | - | - | - | - | - | 9,302 | 4,186 | | |
| 51 - 67 | - | - | - | - | - | - | 532 | 181 | | |
| TOTAL | - | - | - | - | - | - | 40,204 | 20,995 | | |
| TOTAL, 1961 . . | 161,771 | 59,993 | 427,564 | 185,101 | 422,857 | 225,193 | 229,836 | 126,075 | | |
| TOTAL, 1960 . . | 240,372 | 98,268 | 1,367,193 | 578,086 | 989,333 | 539,005 | 396,544 | 187,225 | | |
| SPECIES AND SIZE | OCTOBER | | NOVEMBER | | DECEMBER | | TOTAL | | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | | |
| BROWN: | | | | | | | | | | |
| 15 - 20 | 8,879 | \$5,483 | - | - | - | - | 74,404 | \$54,314 | | |
| 21 - 25 | 649 | 435 | - | - | - | - | 46,678 | 31,275 | | |
| 26 - 30 | 1,485 | 906 | - | - | - | - | 77,694 | 47,080 | | |
| 31 - 40 | 22,729 | 12,274 | - | - | - | - | 184,066 | 91,339 | | |
| 41 - 50 | 8,461 | 3,805 | - | - | - | - | 117,677 | 49,500 | | |
| 51 - 67 | 28,697 | 9,756 | - | - | - | - | 66,355 | 22,344 | | |
| 68 AND OVER . . | 21,718 | 5,432 | - | - | - | - | 34,525 | 8,634 | | |
| TOTAL | 92,618 | 39,092 | - | - | - | - | 601,419 | 304,486 | | |
| PINK: | | | | | | | | | | |
| 15 - 20 | 13,118 | 9,576 | 5,867 | \$4,283 | 210 | \$153 | 47,016 | 34,250 | | |
| 21 - 25 | 1,947 | 1,304 | - | - | - | - | 27,465 | 18,401 | | |
| 26 - 30 | 4,085 | 2,493 | - | - | - | - | 56,990 | 34,193 | | |
| 31 - 40 | 29,640 | 16,006 | 56,738 | 30,638 | 2,245 | 1,212 | 231,061 | 120,084 | | |
| 41 - 50 | 16,518 | 7,434 | 34,003 | 15,303 | 995 | 447 | 299,560 | 131,430 | | |
| 51 - 67 | 48,251 | 16,405 | 56,032 | 19,052 | 4,385 | 1,623 | 272,055 | 93,708 | | |
| 68 AND OVER . . | 62,453 | 15,614 | 35,916 | 8,980 | 6,024 | 1,927 | 155,242 | 39,987 | | |
| TOTAL | 176,012 | 68,832 | 188,556 | 78,256 | 13,859 | 5,362 | 1,092,389 | 472,053 | | |
| WHITE: | | | | | | | | | | |
| 26 - 30 | 3,215 | 1,962 | - | - | - | - | 6,471 | 3,949 | | |
| 31 - 40 | 28,531 | 15,406 | 15,477 | 8,358 | 1,630 | 880 | 72,752 | 39,285 | | |
| 41 - 50 | 8,439 | 3,798 | 2,536 | 1,141 | 306 | 138 | 20,583 | 9,263 | | |
| 51 - 67 | - | - | 1,087 | 370 | 100 | 37 | 1,719 | 588 | | |
| TOTAL | 40,185 | 21,166 | 19,100 | 9,869 | 2,036 | 1,055 | 101,525 | 53,085 | | |
| TOTAL, 1961 . . | 308,815 | 129,090 | 207,656 | 88,125 | 15,895 | 6,417 | 1,795,333 | 829,624 | | |
| TOTAL, 1960 . . | 297,430 | 112,342 | 134,187 | 47,578 | 20,347 | 7,237 | 3,564,555 | 1,606,803 | | |

SOUTH ATLANTIC FISHERIES

SOUTH CAROLINA SHRIMP LANDINGS, BY MONTHS, 1961

| SPECIES AND SIZE | JANUARY | | FEBRUARY | | MARCH | | | |
|--------------------------|-----------|----------|----------|----------|-----------|----------|-----------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | | |
| WHITE, 51 - 67 | 60 | \$20 | - | - | - | - | | |
| TOTAL, 1961 | 60 | 20 | - | - | - | - | | |
| TOTAL, 1960 | - | - | - | - | 6,069 | \$1,032 | | |
| SPECIES AND SIZE | APRIL | | MAY | | JUNE | | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | | |
| WHITE: | | | | | | | | |
| 21 - 25 | - | - | - | - | 680 | \$408 | | |
| 26 - 30 | - | - | 1,476 | \$886 | 31,410 | 17,275 | | |
| 31 - 40 | - | - | - | - | 18,489 | 8,874 | | |
| TOTAL | - | - | 1,476 | 886 | 50,579 | 26,557 | | |
| TOTAL, 1961 | - | - | 1,476 | 886 | 50,579 | 26,557 | | |
| TOTAL, 1960 | - | - | 6,905 | 4,368 | 151,544 | 97,211 | | |
| SPECIES AND SIZE | JULY | | AUGUST | | SEPTEMBER | | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | | |
| BROWN: | | | | | | | | |
| 21 - 25 | - | - | 19,251 | \$11,551 | - | - | | |
| 26 - 30 | 20,457 | \$11,253 | 134,690 | 74,079 | - | - | | |
| 31 - 40 | 51,400 | 24,672 | 142,417 | 68,360 | - | - | | |
| 41 - 50 | 57,030 | 23,383 | 50,624 | 20,756 | - | - | | |
| 51 - 67 | 26,000 | 10,080 | 23,000 | 8,280 | - | - | | |
| TOTAL | 156,887 | 69,388 | 369,982 | 183,026 | - | - | | |
| WHITE: | | | | | | | | |
| 21 - 25 | - | - | - | - | 97,252 | \$67,104 | | |
| 26 - 30 | - | - | - | - | 209,333 | 133,973 | | |
| 31 - 40 | - | - | - | - | 196,500 | 112,005 | | |
| 41 - 50 | - | - | - | - | 84,500 | 41,405 | | |
| 51 - 67 | - | - | - | - | 17,000 | 5,780 | | |
| TOTAL | - | - | - | - | 604,585 | 360,267 | | |
| TOTAL, 1961 | 156,887 | 69,388 | 369,982 | 183,026 | 604,585 | 360,267 | | |
| TOTAL, 1960 | 851,182 | 403,038 | 740,166 | 342,013 | 925,792 | 376,038 | | |
| SPECIES AND SIZE | OCTOBER | | NOVEMBER | | DECEMBER | | TOTAL | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BROWN: | | | | | | | | |
| 21 - 25 | - | - | - | - | - | - | 19,251 | \$11,551 |
| 26 - 30 | - | - | - | - | - | - | 155,147 | 85,332 |
| 31 - 40 | - | - | - | - | - | - | 193,817 | 93,032 |
| 41 - 50 | - | - | - | - | - | - | 107,654 | 44,139 |
| 51 - 67 | - | - | - | - | - | - | 51,000 | 18,360 |
| TOTAL | - | - | - | - | - | - | 526,869 | 252,414 |
| WHITE: | | | | | | | | |
| 21 - 25 | 89,943 | \$62,062 | 19,039 | \$13,137 | 2,443 | \$1,666 | 209,357 | 144,397 |
| 26 - 30 | 247,000 | 158,080 | 68,000 | 43,520 | 14,500 | 9,280 | 571,719 | 363,014 |
| 31 - 40 | 165,726 | 94,464 | 222,000 | 126,540 | 82,000 | 46,740 | 684,715 | 388,623 |
| 41 - 50 | 109,000 | 53,410 | 66,216 | 32,446 | 4,036 | 1,978 | 263,752 | 129,339 |
| 51 - 67 | 52,000 | 17,680 | - | - | - | - | 69,060 | 23,480 |
| TOTAL | 663,669 | 385,696 | 375,255 | 215,643 | 102,979 | 59,684 | 1,798,603 | 1,048,753 |
| TOTAL, 1961 | 663,669 | 385,696 | 375,255 | 215,643 | 102,979 | 59,684 | 2,325,472 | 1,301,167 |
| TOTAL, 1960 | 1,088,665 | 508,425 | 775,592 | 348,086 | 234,168 | 86,252 | 4,780,083 | 2,166,483 |

SEE NOTE ON PAGE 226.

SOUTH ATLANTIC FISHERIES

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GEORGIA SHRIMP LANDINGS, BY MONTHS, 1961

| SPECIES AND SIZE | JANUARY | | FEBRUARY | | MARCH | |
|-----------------------|---------|---------|----------|---------|--------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| WHITE: | | | | | | |
| 21 - 25 | 5,600 | \$3,192 | 6,108 | \$3,543 | 2,100 | \$1,239 |
| 26 - 30 | 11,454 | 5,956 | 1,682 | 908 | 2,961 | 1,629 |
| 31 - 40 | 12,028 | 5,501 | 725 | 354 | 250 | 124 |
| 41 - 50 | 15,022 | 5,601 | 5,511 | 2,322 | 4,300 | 1,812 |
| 51 - 67 | 7,274 | 2,168 | - | - | 4,690 | 1,659 |
| 68 AND OVER | 46,537 | 11,169 | 16,852 | 5,005 | 10,700 | 4,170 |
| TOTAL | 97,915 | 33,587 | 30,878 | 12,132 | 25,001 | 10,633 |
| TOTAL, 1961 | 97,915 | 33,587 | 30,878 | 12,132 | 25,001 | 10,633 |
| TOTAL, 1960 | 107,364 | 36,214 | 23,698 | 8,159 | 29,361 | 9,350 |

| SPECIES AND SIZE | APRIL | | MAY | | JUNE | |
|--------------------------|--------|--------|---------|--------|---------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BROWN, 41 - 50 | - | - | - | - | 772 | \$323 |
| WHITE: | | | | | | |
| 21 - 25 | 125 | \$74 | 200 | \$118 | 150 | 89 |
| 26 - 30 | 414 | 227 | 22,472 | 12,135 | 45,767 | 24,715 |
| 31 - 40 | 9,479 | 4,462 | 16,710 | 8,304 | 5,662 | 2,630 |
| 41 - 50 | 3,828 | 1,628 | 21 | 8 | 475 | 196 |
| 51 - 67 | 2,800 | 1,034 | - | - | 301 | 110 |
| 68 AND OVER | 5,040 | 1,663 | 531 | 175 | 21 | 7 |
| TOTAL | 21,686 | 9,088 | 39,934 | 20,740 | 52,376 | 27,947 |
| TOTAL, 1961 | 21,686 | 9,088 | 39,934 | 20,740 | 53,148 | 28,270 |
| TOTAL, 1960 | 65,164 | 19,518 | 114,015 | 65,231 | 308,111 | 185,178 |

| SPECIES AND SIZE | JULY | | AUGUST | | SEPTEMBER | |
|-----------------------|---------|---------|---------|---------|-----------|----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BROWN: | | | | | | |
| 21 - 25 | 14,400 | \$8,496 | 12,325 | \$8,505 | 16,125 | \$13,775 |
| 26 - 30 | 81,844 | 44,195 | 59,275 | 37,936 | 81,100 | 57,600 |
| 31 - 40 | 20,800 | 10,350 | 25,075 | 14,794 | 34,100 | 22,500 |
| TOTAL | 117,044 | 63,041 | 96,675 | 61,235 | 133,325 | 93,880 |
| WHITE: | | | | | | |
| 21 - 25 | 3,866 | 2,281 | 9,275 | 6,400 | 4,450 | 3,382 |
| 26 - 30 | 40,375 | 21,802 | 38,550 | 24,672 | 176,653 | 125,424 |
| 31 - 40 | 27,075 | 13,490 | 122,670 | 68,643 | 261,475 | 168,119 |
| 41 - 50 | 4,554 | 1,877 | 87,755 | 41,833 | 94,975 | 51,368 |
| 51 - 67 | 7,618 | 2,811 | 29,923 | 12,528 | 85,000 | 37,078 |
| 68 AND OVER | 5,016 | 1,655 | 60,376 | 22,341 | 101,926 | 35,164 |
| TOTAL | 88,504 | 43,916 | 348,549 | 176,417 | 724,479 | 420,535 |
| TOTAL, 1961 | 205,548 | 106,957 | 445,224 | 237,652 | 857,804 | 514,415 |
| TOTAL, 1960 | 690,588 | 285,533 | 619,034 | 264,989 | 1,222,980 | 509,655 |

| SPECIES AND SIZE | OCTOBER | | NOVEMBER | | DECEMBER | | TOTAL | |
|-----------------------|-----------|-----------|----------|----------|----------|---------|-----------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BROWN: | | | | | | | | |
| 21 - 25 | - | - | - | - | - | - | 44,850 | \$30,776 |
| 26 - 30 | - | - | - | - | - | - | 222,219 | 139,731 |
| 31 - 40 | - | - | - | - | - | - | 79,975 | 47,649 |
| 41 - 50 | - | - | - | - | - | - | 772 | 323 |
| TOTAL | - | - | - | - | - | - | 347,816 | 218,479 |
| WHITE: | | | | | | | | |
| 15 - 20 | - | - | - | - | 1,500 | \$1,260 | 1,500 | 1,260 |
| 21 - 25 | 332,650 | \$237,644 | 74,750 | \$60,546 | 29,275 | 23,127 | 465,549 | 341,835 |
| 26 - 30 | 254,500 | 169,242 | 239,525 | 192,039 | 23,476 | 17,370 | 857,928 | 586,119 |
| 31 - 40 | 101,575 | 60,952 | 203,525 | 140,294 | 109,950 | 72,170 | 871,124 | 545,253 |
| 41 - 50 | 84,400 | 40,910 | 161,575 | 93,637 | 127,600 | 72,732 | 590,016 | 313,924 |
| 51 - 67 | 64,513 | 25,505 | 164,860 | 80,765 | 66,075 | 30,681 | 433,054 | 194,339 |
| 68 AND OVER | 34,588 | 10,722 | 88,905 | 34,672 | 113,236 | 43,029 | 483,728 | 169,772 |
| TOTAL | 872,226 | 545,185 | 933,140 | 591,953 | 471,111 | 260,369 | 3,705,799 | 2,152,502 |
| TOTAL, 1961 | 872,226 | 545,185 | 933,140 | 591,953 | 471,111 | 260,369 | 4,053,615 | 2,370,981 |
| TOTAL, 1960 | 1,366,493 | 582,898 | 846,921 | 375,609 | 798,481 | 232,947 | 6,192,210 | 2,575,281 |

SEE NOTE ON PAGE 226.

SOUTH ATLANTIC FISHERIES

FLORIDA, EAST COAST SHRIMP LANDINGS, BY MONTHS, 1961

| SPECIES AND SIZE | JANUARY | | FEBRUARY | | MARCH | | APRIL | | MAY | |
|-----------------------|---------|-----------|----------|-----------|----------|----------|-----------|-----------|--------|--------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| WHITE: | | | | | | | | | | |
| 15 - 20 | - | - | - | - | 385 | \$293 | - | - | 660 | \$640 |
| 21 - 25 | 197,865 | \$126,533 | 24,947 | \$16,961 | 27,122 | 19,475 | 9,001 | \$6,480 | 10,557 | 7,298 |
| 26 - 30 | 50,361 | 30,217 | 14,418 | 9,210 | 10,636 | 7,110 | 10,124 | 6,784 | 20,379 | 12,613 |
| 31 - 40 | 50,149 | 26,061 | 3,969 | 2,234 | 4,965 | 2,979 | 4,796 | 2,877 | 6,765 | 3,784 |
| 41 - 50 | 46,053 | 19,315 | 16,410 | 7,871 | 5,465 | 2,841 | 1,907 | 992 | 1,092 | 502 |
| 51 - 67 | 58,178 | 20,363 | 12,262 | 4,904 | 2,609 | 1,096 | - | - | 1,361 | 490 |
| 68 AND OVER | 13,555 | 3,659 | 555 | 195 | 310 | 93 | - | - | - | - |
| TOTAL | 416,181 | 226,148 | 72,581 | 41,375 | 51,512 | 33,887 | 25,828 | 17,133 | 41,014 | 25,327 |
| TOTAL, 1961 | 416,181 | 226,148 | 72,581 | 41,375 | 51,512 | 33,887 | 25,828 | 17,133 | 41,014 | 25,327 |
| TOTAL, 1960 | 594,446 | 308,730 | 103,146 | 53,713 | 54,621 | 35,880 | 22,866 | 17,019 | 26,658 | 17,408 |
| SPECIES AND SIZE | JUNE | | JULY | | AUGUST | | SEPTEMBER | | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | | |
| BROWN: | | | | | | | | | | |
| 21 - 25 | 1,942 | \$1,306 | 6,214 | \$3,881 | - | - | - | - | | |
| 26 - 30 | 5,611 | 3,366 | 18,813 | 10,768 | - | - | - | - | | |
| 31 - 40 | 3,529 | 1,905 | 23,411 | 12,636 | - | - | - | - | | |
| 41 - 50 | 1,496 | 688 | 5,440 | 2,239 | - | - | - | - | | |
| 51 - 67 | - | 53 | 7,095 | 2,165 | - | - | - | - | | |
| 68 AND OVER | - | - | 261 | 70 | - | - | - | - | | |
| TOTAL | 12,713 | 7,320 | 61,254 | 31,781 | - | - | - | - | | |
| WHITE: | | | | | | | | | | |
| 15 - 20 | 774 | 541 | 142 | 97 | 307 | \$260 | 118 | \$94 | | |
| 21 - 25 | 10,620 | 7,079 | 10,023 | 6,487 | 19,163 | 15,067 | 16,201 | 13,650 | | |
| 26 - 30 | 35,281 | 21,168 | 22,551 | 12,932 | 48,776 | 36,046 | 69,840 | 48,888 | | |
| 31 - 40 | 26,168 | 14,132 | 25,241 | 13,676 | 68,451 | 42,783 | 301,498 | 189,945 | | |
| 41 - 50 | 13,740 | 6,321 | 7,532 | 3,248 | 31,600 | 17,481 | 62,870 | 33,321 | | |
| 51 - 67 | 3,514 | 1,370 | 7,562 | 2,306 | 30,966 | 13,091 | 28,172 | 11,833 | | |
| 68 AND OVER | 980 | 294 | 357 | 89 | 2,856 | 873 | 16,724 | 5,686 | | |
| TOTAL | 91,277 | 50,905 | 73,408 | 38,835 | 202,119 | 125,601 | 497,423 | 303,417 | | |
| TOTAL, 1961 | 103,990 | 58,225 | 134,662 | 70,616 | 202,119 | 125,601 | 497,423 | 303,417 | | |
| TOTAL, 1960 | 118,216 | 69,663 | 245,191 | 131,967 | 208,985 | 109,628 | 290,974 | 127,178 | | |
| SPECIES AND SIZE | OCTOBER | | NOVEMBER | | DECEMBER | | TOTAL | | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | | |
| BROWN: | | | | | | | | | | |
| 21 - 25 | - | - | - | - | - | - | 8,156 | \$5,189 | | |
| 26 - 30 | - | - | - | - | - | - | 24,424 | 14,154 | | |
| 31 - 40 | - | - | - | - | - | - | 26,940 | 14,543 | | |
| 41 - 50 | - | - | - | - | - | - | 6,936 | 2,927 | | |
| 51 - 67 | - | - | - | - | - | - | 7,230 | 2,218 | | |
| 68 AND OVER | - | - | - | - | - | - | 281 | 70 | | |
| TOTAL | - | - | - | - | - | - | 73,967 | 39,101 | | |
| WHITE: | | | | | | | | | | |
| 15 - 20 | 65,448 | \$51,049 | 159,544 | \$132,421 | 92,712 | \$79,732 | 320,290 | 265,127 | | |
| 21 - 25 | 263,903 | 196,981 | 438,734 | 350,967 | 119,588 | 93,258 | 1,149,924 | 865,256 | | |
| 26 - 30 | 157,893 | 109,968 | 179,158 | 134,368 | 162,881 | 127,047 | 782,338 | 556,351 | | |
| 31 - 40 | 64,234 | 40,202 | 51,313 | 34,893 | 148,799 | 105,647 | 756,368 | 479,213 | | |
| 41 - 50 | 24,906 | 13,043 | 12,750 | 7,395 | 58,815 | 35,877 | 283,140 | 148,207 | | |
| 51 - 67 | 8,230 | 3,456 | 4,199 | 2,016 | 21,729 | 11,082 | 178,782 | 72,007 | | |
| 68 AND OVER | - | - | 137 | 55 | 340 | 146 | 35,814 | 11,090 | | |
| TOTAL | 584,614 | 414,699 | 845,835 | 662,135 | 604,864 | 458,789 | 3,506,656 | 2,398,251 | | |
| TOTAL, 1961 | 584,614 | 414,699 | 845,835 | 662,135 | 604,864 | 458,789 | 3,580,623 | 2,437,352 | | |
| TOTAL, 1960 | 685,834 | 332,654 | 751,197 | 435,827 | 941,309 | 523,641 | 4,043,443 | 2,163,308 | | |

NOTE:--ALL WEIGHTS ARE ON HEADS-OFF BASIS. THE SIZE INDICATES THE NUMBER OF HEADS-OFF SHRIMP TO THE POUND. TO CONVERT TO HEADS-ON, MULTIPLY BY 1.68 FOR BROWN, PINK AND WHITE.

SECTION 6 - GULF FISHERIES

The commercial catch of fish and shellfish landed at ports of the Gulf States (West Coast of Florida, Alabama, Mississippi, Louisiana, and Texas) during 1961 amounted to 1.4 billion pounds with a dockside value of \$76 million. The volume of landings established a new record surpassing the previous, recorded in 1960, by over 111 million pounds or 9 percent. This was due to record menhaden landings. Value of the landings decreased approximately \$10 million or 12 percent from that of 1960; the disastrously low shrimp catches were the reason for this substantial decline in value. The year presented a mixed economic situation in the fisheries of the Gulf States. The catch of shrimp (133.8 million pounds) was 35 percent less than in 1960; however the value of the catch (\$43.6 million) accounted for 58 percent of the amount paid Gulf fishermen for all species. Menhaden landings (1,020 million pounds) were a new record and catches of crabs (36.3 million pounds) and oysters (18.2 million pounds) were considerably above average.

Louisiana again led all Gulf States, as well as all other States in the Nation, in volume of landings as a result of continued record menhaden production. Texas continued its position, among the Gulf States, as the leader in terms of value of landings. Increases in volume, compared with 1960, were recorded in only two States--Mississippi, with a 77-million-pound (25 percent) increase, and Louisiana, with a 82-million-pound, (14 percent) increase. Both increases resulted from greater menhaden landings. Alabama landings declined 3.6 million pounds; Texas, 34.4 million; and Florida, West Coast, 10.2 million pounds. The value declined in each State and ranged from a substantial drop of \$4.5 million in Louisiana to a \$57,000 decrease in Mississippi.

As is usually the case, five species predominated the landings and accounted for 90 percent of the total. Shrimp, the most valuable species, decreased 72 million pounds from 1960. Menhaden, the perennial leader in volume, increased 179.5 million pounds; oyster meats and mullet landings each increased by 2 million pounds; and crab landings were up 577,000 pounds compared with 1960.

Weather conditions in most of the area did not follow the normal seasonal patterns during 1961. Heavy rains, with accompanying floods, were experienced in most States during the early spring. In these same areas, an unseasonably warm period in January was followed by unusually prolonged cold weather. The area was struck by one hurricane during the year. Hurricane Carla hovered off the Texas coast and smashed inshore on September 11. Shore plant installations and craft at Palacios and Port O'Connor were completely destroyed as the "eye" moved ashore at this point on the coast. Shore plants at Freeport and Port Lavaca were also heavily damaged. Water damage, as a result of this hurricane, was inflicted on other shore plant installations along the Texas and Louisiana coasts. Adequate warning permitted craft operators to seek harbors of safety so that losses were minimal. Heavy gear losses occurred in the net and trotline fisheries, particularly in Matagorda Bay and adjacent areas, as a result of this storm. Fishing along the Texas coast was curtailed for approximately 10 days as a result of this hurricane. Shortly after the hurricane a short-lived, but heavy, run of shrimp occurred off Port Isabel, Texas. Catches of red snapper in all areas off the Texas and Louisiana coasts also reached unprecedented high levels following the hurricane.

There were 17,615 persons employed by 768 fishery wholesaling and processing establishments in the Gulf area during 1961. The value of processed fishery products, \$144 million, was \$5 million less than in 1960.

Landings of shrimp declined drastically during 1961, and ex-vessel prices increased moderately. However, the decline in volume was so great, and followed so closely the low prices of 1959, that vessel operators were in financial difficulty by midyear. At the close of the year, all major shrimp organizations were seeking to have their Legislators amend the provisions of the Farm Disaster Act to include fisheries which suffer "crop failures" as a result of natural causes. Biological research on shrimp had not reached the stage where the specific factors



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causing the decline in population abundance could be clearly delineated. However, speculation among many biologists and longtime fishermen was that abnormal water temperatures and salinities were prime factors affecting this decline. A slight measure of relief was afforded by the relatively higher ex-vessel prices during the last quarter of the year. This is well illustrated by the fact that while landings declined 35 percent, the value of these landings declined only 24 percent. This relationship between declines in volume and value is especially significant since there was very little change in the size composition of the shrimp landings compared with the previous year.

The decline in shrimp populations was apparent in nearly all major fishing areas of both the coastal and offshore waters of the Gulf of Mexico, and was reflected in greatly decreased landings in each of the States. Those States comprising the North Central Gulf (Alabama, Mississippi, and Louisiana) sustained decreases of 51, 60, and 50 percent, respectively. Landings at Texas ports declined 28 percent below 1960, while those on the West Coast of Florida were down 19 percent. A review of the species composition of landings in each State indicates that there was a "crop failure" of both brown (*Penaeus aztecus*) and white (*Penaeus setiferus*) varieties, with the greatest decline in stocks of brown shrimp.

The average ex-vessel price per pound, heads-off weight, during 1961 was nearly 55 cents--up 8 cents from the 1960 average. The greatest increase was in Texas, where a high of about 61 cents was recorded--10 cents over the previous year. In all other States the increase, over 1960, ranged from 5 to 6 cents per pound. While prices were substantially higher than in 1960, they were, in all States, considerably below those recorded in 1958, the record year.

Production of packaged raw, headless shrimp was 32.4 million pounds below that of 1960; however, peeled and deveined and breaded shrimp showed a gain of 7 percent. The increase in the latter category was made possible by greater imports of shrimp and a reduction in frozen stocks. As a result of short domestic supplies, some experimenting was done to determine the feasibility of using imported frozen shrimp for canning purposes.

A promising new product, Shrimp Logs, was introduced by a Louisiana processor during 1961. Tiny Alaskan shrimp packed into polyethylene sleeves were molded in special forms and quick-frozen at an Alaska plant. The logs were then shipped to the Louisiana plant where the processor sliced them into the desired thickness, while still frozen, and then breaded and packaged the slices. The slices resemble a butterfly-shaped shrimp.

Partially compensating for the greatly reduced shrimp landings of the Gulf area was an ever-increasing quantity of imports, which totaled a record 126 million pounds. These imports exceeded those of 1960, the previous record year, by 13 million pounds, or 11 percent.

The menhaden fishery was the most encouraging segment of the Gulf fishing industry. A record 1 billion pounds were landed, surpassing the record year, 1960, by over 179 million pounds. Fish were plentiful in most coastal areas throughout the season (April through October) and were large enough to produce a very good oil yield. Louisiana led all States with landings of 582 million pounds--an increase of 24 percent over 1960--while Mississippi landings reached a new high of 301 million pounds--a 38-percent increase over those of 1960. Texas was the only State in the Central and Western Gulf in which landings decreased from the previous year, probably because of the disruption of fishing activities and scattering of menhaden schools due to hurricane Carla.

Evidence of the abundance of menhaden is perhaps best illustrated by the fact that 69 vessels participated in the taking of this record catch, compared with 76 during 1960. Increased efficiency of fishing operations by the use of pneumatic blocks aboard seine boats, as well as the abundance of fish, contributed to the greater catches of 1961. The use of striker boats in this fishery was practically abandoned as aircraft spotters now perform the function of indicating the location and movement of schools of fish.

Market conditions for the products derived from menhaden were somewhat mixed during the year. Meal and scrap prices remained relatively high, with an average for the Gulf area of \$105 per ton--an increase of \$15 per ton over 1960. Prices for menhaden oil took a downward trend at the close of the season, with an average for the year of about 45 cents per gallon in contrast to approximately 49 cents in 1960. The principal factors in this downward trend were the heavy production of fish oil in Peru and the higher oil yield from menhaden taken from the Gulf of Mexico. The demand for solubles remained light to moderate, and the average price for the year was approximately \$40 per ton.

Landings of over 18 million pounds of oyster meats were the highest recorded by the Bureau since 1939. While landings in Alabama and Texas were less than half those of the previous years, substantial increases in the other Gulf States compensated for these declines. Louisiana, the consistent leader among the Gulf States, accounted for over 55 percent of the area total with slightly over 10 million pounds. West Coast of Florida landings, 3.3 million pounds, were up 1.3 million pounds over 1960, while Mississippi landings increased 850,000 pounds. The average price per pound during 1961 increased 7 cents over that of 1960 for Florida, West Coast production, and 5 cents for Alabama. In the remainder of the States, the average price per pound was at nearly the same level as in 1960.

The principal incentive for increasing production was the strong demand created by the shortage of oysters in the Chesapeake and Middle Atlantic States. The West Coast of Florida moved into second position in both volume and value of landings. As was the case on the East Coast, there was a virtual rebirth of this fishery in Florida, and it is anticipated that production will continue to increase in the future. A further indication of the interest in this fishery was the granting of 33 leases, covering 1,298 acres, by the Florida Board of Conservation to private individuals during 1961.

In Alabama, the drastic decline in production occurred as a result of mortality due to the heavy influx of fresh water in the February floods. Pollution, both industrial waste and sewage, increased as a result of currents generated by these floods. This led to the closing of over 90 percent of the oyster reefs on March 5 for the balance of the spring season. The reefs were reopened for the fall season, but pollution again forced closure of the majority during December.

Texas oyster reefs were in much the same condition as those of Alabama. Abnormal fresh-water intrusion and contamination resulting from hurricane Carla were prime factors in the sharply reduced production. One interesting aspect of the Texas fishery was the development of a steel raft for growing oysters. In operation, the raft is towed to the seeding ground and sunk; stringers of plastic strips, attached to upright reinforcement rods, serve as the cultch for collecting spat. This type of operation is designed to save labor in harvesting and also provide mobility in that the raft can be moved to areas having optimum growing conditions for oysters. Conditions for growth and development of oysters in Louisiana and Mississippi were very good and were a principal reason for increased production.

The increase in oyster landings of the Gulf area was reflected in the processed commodities. The canned pack of 324,600 standard cases in Mississippi and Louisiana, the principal producing States in the area, was an increase of 30 percent over that of 1960. Production of shucked oyster meats amounted to 963,000 gallons--up 35 percent over 1960. The 10-ounce glass containers for retail sales of shucked oysters continued to grow in popularity.

Canned oyster prices declined about \$1 per case below the \$13.60 received in 1960, as dealers continued their attempts to compete with the lower priced imports of this commodity. The average price for fresh shucked oysters, for the entire area, was about the same as in 1960.



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Landings of choice finfish in the area increased over the previous year in nearly every case. Red snapper landings amounted to 11.9 million pounds--1.6 million pounds more than in 1960, and according to Bureau records, the greatest poundage landed since 1927. Much of the increase was due to new vessels entering the fishery and more efficient gear. The use of a mechanical hand reel with small stainless steel wire reduced effort required to bring fish from the depths and also permitted fishing in deeper waters and using more hooks per line. The relatively high ex-vessel red snapper price (averaging 26 cents per pound) precluded any large-scale filleting operation. Technological developments, such as a reasonably priced fillet machine and more efficient methods of capture, could probably expand the extent of this fishery in the Gulf area.

Landings of fish caught incidental to shrimp trawling, while three times as great as those of 1960, accounted for only 3 percent of the total landings. This increase occurred in both Texas and Louisiana, probably resulting from fishermen seeking to sell any species of value caught incidental to shrimping in order to compensate for monetary losses due to greatly reduced shrimp catches.

Mullet were plentiful throughout most of the year in all States, and the 34.8 million pounds landed were an increase of 2.1 million over 1960. The same technological developments mentioned as needed for red snapper are also applicable to this species. In Florida, the principal producing State, plans were made for accelerating promotional activities for this species. One of the principal determinations to be made, in connection with the promotional program, was the suitability of mullet for canning. A good demand and price structure served as an incentive for a greatly increased production of mullet roe in the West Coast of Florida.

Spanish mackerel landings of 4 million pounds were down 27 percent from the landings of 1960. Spotted sea trout landings were below those of 1960, because of a decline in the abundance of this species in Florida and Texas. Catches by Alabama, Mississippi, and Louisiana fishermen increased over the previous year. However, it is not known whether greater abundance or intensified fishing effort accounted for the increases in these States.

For the third consecutive year, the West Coast of Florida led all Gulf States in landings of hard, blue crabs. While the landings of 35.3 million pounds for the Gulf area were the highest recorded since 1945, they could have been much greater if a sufficient demand had existed. Processing plant operators were greatly concerned over their ability to pay the new minimum wage and still produce crab meat that would meet consumer acceptance with regard to price. Prior to the application of the minimum wage law, employees were paid on a piecework basis, generally 20 cents a pound for picked meats.

Landings of fresh-water catfish and bullheads from rivers in the coastal areas of the various States continued to provide a substantial contribution in the overall economy of the fisheries. The introduction of a polyethylene package, containing two or three skinned and dressed frozen catfish, was expected to afford a greater sales distribution of this species.

Fishery research conducted by each of the Gulf States remained at relatively high levels during the year. In Alabama, the major efforts of the research program were directed toward getting more production from existing oyster reefs and establishing new reefs by an increased shell-planting program. Plans were also completed for construction of a modern laboratory and Seafoods Division office on Dauphin Island.

As in past years, the Florida State Board of Conservation, Salt-water Fisheries Division, conducted research through its own facilities in St. Petersburg and Apalachicola, and by contract with the Marine Laboratory, University of Miami. Research on fish was primarily devoted to studies of reef fishes and the taxonomy and biology of species comprising an integral part of the food chain. The final report of several years' observations on pink spotted shrimp (Penaeus duorarum) was completed and indicated that because of its role in stimulating spawning, temperature may be important in determining the abundance of year classes.

The Marine Laboratory of the Louisiana Wild Life and Fisheries Commission, on Grand Terre Island, continued its research program with a complete staff. Its principal research was hydrographic studies of shrimp and oysters, the primary purpose of which is to establish what may be considered normal environmental conditions compared with abnormal. This information will be correlated with all phases of work on shrimp and oysters. Shrimp research was expanded, with primary emphasis on the brown shrimp (*Penaeus aztecus*), to determine offshore spawning areas; growth rates, distribution, and movement in inside waters; postlarval arrivals into the bays, including density counts; and histological studies of the reproductive cycle. Oyster research followed much the same pattern as in previous years. Research indicated that excessive fresh water, while limiting available supplies of seed oyster, greatly reduced the snail Thais and the appearance of the disease caused by *Dermocystidium marinum*.

The Gulf Coast Research Laboratory, Ocean Springs, Mississippi established its own journal called Gulf Research Reports. Volume 1, No. 1, was a paper describing the distribution, with natural history notes, on all marine and brackish water mollusks of the State of Mississippi. Studies continued on menhaden, shrimp, and oysters. The Laboratory participated in a joint study with the Mississippi Marine Conservation Commission and the U.S. Soil Conservation Service on the sedimentation of Mississippi Sound by a new method which consists of a probe which gives off gamma rays and a receiving apparatus.

The Texas Game and Fish Commission completed a reorganization which divided the activities into five regions. However, general policy and administrative offices remained in Austin. Research emphasis continued to be placed on the life history of species subject to the greatest fishing pressure, both sport and commercial; and hydrographic and environmental studies.

The Bureau of Commercial Fisheries, under the direction of its Regional Office in St. Petersburg Beach, Florida, continued its Research and Services Programs on the major fisheries of the Gulf States. Specific and detailed accomplishments of each of the Branches comprising the Bureau are contained in Report of the Bureau of Commercial Fisheries, Calendar Year 1961, and Operations of the Bureau of Commercial Fisheries Under the Saltonstall-Kennedy Act, Fiscal Year 1961.

Through the efforts of the Gulf States Marine Fisheries Commission, an additional \$175,000 was appropriated by Congress for expanded shrimp research during the fiscal year 1962.

A hearing was held before the Committee on Ways and Means, House of Representatives, on H.R. 6168, a bill to amend the Tariff Act of 1930 to impose a duty on shrimp and to provide for duty free entry of unprocessed shrimp annually in an amount equal to imports of shrimp in 1960. The bill was still in Committee at the close of the year.

Condensed summary data on operating units and catch by States appearing on the following pages have been previously published in Current Fishery Statistics bulletin No. 3051. Data on the catch and operating units of the East Coast of Florida and the entire State of Florida may be found in Section 5 of this Digest. Seasonal variations of the catch of fish and shellfish in Florida, Alabama, Mississippi, Louisiana, and Texas can be ascertained from monthly landing bulletins issued currently for these States in cooperation with the fishery agencies of each State. Additional aspects of the Gulf fisheries may be found in daily, monthly, and annual reports published by the Bureau's Fishery Market News Service, Federal Building, 600 South Street, New Orleans 12, Louisiana.

The Bureau acknowledges the assistance of the following organizations in the collection of the data appearing in this Section: Florida State Board of Conservation; Marine Laboratory, University of Miami; Alabama Department of Conservation, Commercial Seafoods Division; Mississippi Marine Conservation Commission; Louisiana Wild Life and Fisheries Commission; and Texas Game and Fish Commission.

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SECTIONAL SUMMARIES SUMMARY OF CATCH, 1961

(MILLIONS OF POUNDS AND MILLIONS OF DOLLARS)

| STATE | FISH | | SHELLFISH, ETC. | | TOTAL | |
|-------------------------------|----------|-------|-----------------|-------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FLORIDA, WEST COAST | 66 | 6 | 59 | 14 | 125 | 20 |
| ALABAMA | 4 | 1 | 5 | 1 | 9 | 2 |
| MISSISSIPPI | 362 | 6 | 10 | 2 | 392 | 8 |
| LOUISIANA | 593 | 9 | 35 | 13 | 648 | 22 |
| TEXAS | 140 | 2 | 63 | 22 | 203 | 24 |
| TOTAL | 1,165 | 24 | 192 | 52 | 1,377 | 76 |

SUMMARY OF OPERATING UNITS, 1961

| ITEM | FLORIDA, WEST COAST | ALABAMA | MISSIS- SIPPI | LOUIS- IANA | TEXAS | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|------------------------------|---------------------------|---------|------------------|----------------|---------|--|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | |
| ON VESSELS | 3,411 | 581 | 1,960 | 3,787 | 4,776 | 10,847 |
| ON BOATS AND SHORE: | | | | | | |
| REGULAR | 2,678 | 657 | 753 | 3,540 | 849 | 8,219 |
| CASUAL | 1,300 | 201 | 367 | 1,090 | 220 | 3,178 |
| TOTAL | 7,389 | 1,439 | 3,080 | 8,417 | 5,845 | 22,244 |
| VESSELS, MOTOR | 1,141 | 200 | 567 | 1,131 | 1,594 | 3,267 |
| GROSS TONNAGE | 46,132 | 6,691 | 23,668 | 46,677 | 82,308 | 140,456 |
| BOATS: | | | | | | |
| MOTOR | 2,946 | 525 | 998 | 3,563 | 791 | 8,571 |
| OTHER | 229 | 176 | 147 | 60 | 28 | 640 |
| GEAR: | | | | | | |
| HAUL SEINES, COMMON | 53 | - | - | 13 | 32 | 98 |
| LENGTH, YARDS | 38,500 | - | - | 4,966 | 7,800 | 51,266 |
| PURSE SEINES: | | | | | | |
| MENHADEN | 2 | - | 18 | 39 | 14 | 69 |
| LENGTH, YARDS | 800 | - | 7,540 | 17,472 | 6,650 | 30,792 |
| OTHER | 2 | - | - | - | - | 2 |
| LENGTH, YARDS | 400 | - | - | - | - | 400 |
| OTTER TRAWLS: | | | | | | |
| FISH | - | - | 127 | 8 | - | 135 |
| YARDS AT MOUTH | - | - | 2,376 | 132 | - | 2,508 |
| SHRIMP | 1,750 | 498 | 1,056 | 3,663 | 3,431 | 7,895 |
| YARDS AT MOUTH | 26,868 | 7,043 | 15,327 | 50,999 | 50,591 | 113,032 |
| FYKE AND HOOP NETS, FISH . . | - | 450 | - | 14,546 | 15 | 15,011 |
| POTS AND TRAPS: | | | | | | |
| CRAB: | | | | | | |
| BLUE | 30,358 | 5,000 | 6,460 | 300 | 7,200 | 49,318 |
| OTHER | 13,604 | - | - | - | - | 13,604 |
| CRABFISH | - | - | - | 6,620 | - | 6,620 |
| FISH | 216 | 230 | - | - | - | 446 |
| LOBSTER, SPINY | 38,990 | - | - | - | - | 38,990 |
| GILL NETS: | | | | | | |
| ANCHOR, SET OR STAKE | 7 | - | - | 59 | 82 | 148 |
| SQUARE YARDS | 3,600 | - | - | 38,704 | 53,370 | 95,674 |
| DRI FT | 22 | - | - | - | - | 22 |
| SQUARE YARDS | 61,500 | - | - | - | - | 61,500 |
| RUNAROUND | 981 | 16 | 4 | - | - | 1,001 |
| SQUARE YARDS | 1,374,340 | 8,400 | 2,400 | - | - | 1,385,140 |
| TRAMMEL NETS | 288 | 96 | 39 | 104 | 53 | 580 |
| SQUARE YARDS | 358,970 | 80,000 | 31,800 | 23,848 | 37,841 | 532,459 |
| LINES: | | | | | | |
| HAND | 2,605 | 133 | 164 | 11,822 | 646 | 15,246 |
| HOOKS | 5,816 | 668 | 584 | 12,199 | 1,741 | 20,459 |
| TROLL | 1,648 | - | - | - | - | 1,648 |
| HOOKS | 1,648 | - | - | - | - | 1,648 |
| LONG OR SET WITH HOOKS . . . | 23 | 2 | - | 1,446 | 162 | 1,633 |
| HOOKS | 19,640 | 600 | - | 526,327 | 338,300 | 864,867 |
| TROT WITH BAITS | 46 | 28 | 15 | 634 | - | 723 |
| BAITS | 29,100 | 14,000 | 7,500 | 382,650 | - | 433,250 |
| SNAG | - | 150 | - | - | - | 150 |
| HOOKS | - | 45,000 | - | - | - | 45,000 |

(CONTINUED ON NEXT PAGE)

GULF FISHERIES

SUMMARY OF OPERATING UNITS, 1961 - Continued

| ITEM | FLORIDA, WEST COAST | ALABAMA | MISSISS- SIPPI | LOUIS- IANA | TEXAS | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|--------------------------|---------------------------|---------|-------------------|----------------|--------|--|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| GEAR - CONTINUED: | | | | | | |
| DIP NETS: | | | | | | |
| COMMON | 37 | - | - | 56 | - | 93 |
| DROP | 60 | - | - | 20,559 | - | 20,619 |
| CAST NETS | 30 | - | 7 | - | - | 37 |
| SPEARS | 50 | 25 | 11 | 9 | 81 | 176 |
| DREDGES: | | | | | | |
| OYSTER, COMMON | - | - | 378 | 513 | 159 | 1,045 |
| YARDS AT MOUTH | - | - | 453 | 749 | 159 | 1,357 |
| SCALLOP | 32 | - | - | - | - | 32 |
| YARDS AT MOUTH | 32 | - | - | - | - | 32 |
| TONGS: | | | | | | |
| OYSTER | 569 | 752 | 674 | 245 | 36 | 2,038 |
| OTHER | 2 | - | - | - | - | 2 |
| RAKES | 6 | - | - | - | - | 6 |
| BRUSH TRAPS | - | - | - | 52,300 | - | 52,300 |
| GRABS, FROG | - | - | - | 36 | - | 36 |
| HOOKS, SPONGE | 84 | - | - | - | - | 84 |
| DIVING OUTFITS | 12 | - | - | - | - | 12 |



CATCH BY STATES, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | FLORIDA, WEST COAST | | ALABAMA | | MISSISSIPPI | |
|--------------------------------------|------------------------|-------|----------|-------|-------------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| - FISH | | | | | | |
| ALEWIVES | 281 | 11 | - | - | - | - |
| AMBERJACK | 7 | (1) | - | - | - | - |
| BALLYHOO | 62 | 9 | - | - | - | - |
| BARRACUDA | 8 | (1) | - | - | - | - |
| BLUEFISH | 624 | 69 | 4 | (1) | 18 | 2 |
| BLUE RUNNER | 947 | 40 | 2 | (1) | - | - |
| BONITO | 2 | (1) | - | - | - | - |
| BUFFALOFISH | - | - | 45 | 6 | - | - |
| CABIO | 15 | 1 | 1 | (1) | - | - |
| CATFISH AND BULLHEADS | 22 | 3 | 51 | 13 | - | - |
| CIGARFISH | 323 | 23 | - | - | - | - |
| CREVALLE | 535 | 15 | - | - | - | - |
| CROKER | 23 | 2 | 15 | 1 | 3 | (1) |
| DOLPHIN | 24 | 1 | - | - | - | - |
| DRUM: | | | | | | |
| BLACK | 75 | 3 | 2 | (1) | 23 | 2 |
| RED | 848 | 96 | 24 | 3 | 53 | 8 |
| FLOUNDERS | 148 | 24 | 98 | 17 | 59 | 7 |
| GROUPERS | 6,370 | 643 | 221 | 28 | 135 | 16 |
| GRUNTS | 85 | 5 | - | - | - | - |
| HOOPFISH | 35 | 5 | - | - | - | - |
| JEWFISH | 51 | 4 | 25 | 2 | - | - |
| KING MACKEREL | 1,683 | 175 | - | - | - | - |
| KING WHITING OR "KINGFISH" | 179 | 12 | 162 | 8 | 250 | 15 |
| MENHADEN | 3,375 | 32 | - | - | 301,271 | 3,404 |
| MOJARRA | 76 | 4 | - | - | - | - |
| MULLET: | | | | | | |
| BLACK | 32,964 | 1,813 | 897 | 46 | 400 | 20 |
| SILVER | 471 | 30 | - | - | - | - |
| PADDFLEISH | - | - | 5 | (1) | - | - |
| PERMIT | 20 | 2 | - | - | - | - |
| PIGFISH | 4 | (1) | - | - | - | - |
| POMPANO | 528 | 375 | 7 | 3 | 1 | 1 |
| SCUP OR PORGY | 48 | 3 | - | - | - | - |
| SEA CATFISH | 225 | 14 | 25 | 1 | 8 | (1) |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GULF FISHERIES

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CATCH BY STATES. 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | FLORIDA, WEST COAST | | ALABAMA | | MISSISSIPPI | |
|---|------------------------|---------------|--------------|--------------|----------------|--------------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH - CONTINUED | | | | | | |
| SEA TROUT OR WEAKFISH: | | | | | | |
| SPOTTED | 2,381 | 557 | 82 | 21 | 172 | 44 |
| WHITE | 252 | 23 | 33 | 2 | 69 | 3 |
| SHARKS, UNCLASSIFIED. | 685 | 12 | - | - | - | - |
| SHEEPSHEAD: | | | | | | |
| FRESH-WATER | - | - | 32 | 4 | - | - |
| SALT-WATER. | 64 | 6 | 21 | 1 | 46 | 4 |
| SNAPPER: | | | | | | |
| MANGROVE. | 262 | 40 | - | - | - | - |
| MUTTON. | 90 | 18 | - | - | - | - |
| RED | 5,446 | 1,449 | 1,784 | 470 | 2,152 | 537 |
| VERMILION | 22 | 4 | - | - | - | - |
| YELLOWTAIL. | 640 | 141 | - | - | - | - |
| SPANISH MACKEREL. | 3,988 | 383 | 15 | 2 | 9 | 1 |
| SPANISH SARDINE | 36 | 1 | - | - | - | - |
| SPOT. | 234 | 13 | 26 | 1 | 1 | (1) |
| STURGEON. | 14 | 2 | - | (1) | - | - |
| TENPOUNDER. | 399 | 13 | 4 | - | - | - |
| TILEFISH. | 1 | (1) | - | - | - | - |
| TRIGGERFISH | 6 | (1) | - | - | - | - |
| TRIPLETAIL. | 3 | (1) | - | - | (1) | (1) |
| WARSAW. | 188 | 11 | - | - | - | - |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD. | 918 | 69 | - | - | - | - |
| BAIT, REDUCTION, AND ANIMAL FOOD | 554 | 13 | - | - | 76,858 | 1,307 |
| TOTAL FISH | 66,231 | 6,169 | 3,582 | 629 | 381,528 | 5,371 |
| SHELLFISH, ETC. | | | | | | |
| CRABS: | | | | | | |
| BLUE: | | | | | | |
| HARD. | 17,130 | 736 | 838 | 46 | 2,505 | 143 |
| SOFT AND PEELER | 5 | 3 | - | - | 7 | 1 |
| STONE | 453 | 156 | - | - | - | - |
| TOTAL CRABS. | 17,588 | 895 | 838 | 46 | 2,512 | 144 |
| LOBSTERS, SPINY | 2,101 | 721 | - | - | - | - |
| SHRIMP | 36,069 | 11,094 | 3,525 | 1,154 | 4,408 | 1,281 |
| CLAMS, HARD, PUBLIC | 15 | 5 | - | - | - | - |
| CONCHS. | 1 | (1) | - | - | - | - |
| OYSTERS, MARKET: | | | | | | |
| PUBLIC: | | | | | | |
| SPRING. | 773 | 245 | 345 | 86 | 1,978 | 423 |
| FALL. | 1,726 | 547 | 69 | 33 | 536 | 167 |
| PRIVATE: | | | | | | |
| SPRING. | 425 | 135 | 30 | 10 | 727 | 163 |
| FALL. | 331 | 105 | 65 | 33 | - | - |
| TOTAL OYSTERS. | 3,255 | 1,032 | 509 | 162 | 3,241 | 753 |
| SCALLOPS, BAY | 36 | 14 | - | - | - | - |
| SQUID | 13 | 1 | 4 | (1) | - | - |
| TURTLES: | | | | | | |
| GREEN | 30 | 5 | - | - | - | - |
| LOGGERHEAD. | 3 | (1) | - | - | - | - |
| TOTAL TURTLES. | 33 | 5 | - | - | - | - |
| SPONGES: | | | | | | |
| GRASS | (1) | 1 | - | - | - | - |
| SHEEPSWOL. | 36 | 362 | - | - | - | - |
| YELLOW. | 1 | 4 | - | - | - | - |
| TOTAL SHELLFISH, ETC. | 59,148 | 14,134 | 4,876 | 1,362 | 10,161 | 2,178 |
| GRAND TOTAL. | 125,379 | 20,303 | 8,458 | 1,991 | 391,689 | 7,549 |

SEE FOOTNOTE AT END OF TABLE

(CONTINUED ON NEXT PAGE)

GULF FISHERIES

CATCH BY STATES, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | LOUISIANA | | TEXAS | | TOTAL | |
|--|-----------|-------|----------|-------|-----------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH - CONTINUED | | | | | | |
| ALEWIVES | - | - | - | - | 281 | 11 |
| AMBERJACK | - | - | - | - | 7 | (1) |
| BALLYHOOD | - | - | - | - | 62 | 9 |
| BARRACUDA | - | - | - | - | 8 | (1) |
| BLUEFISH | - | - | - | - | 646 | 71 |
| BLUE RUNNER | - | - | - | - | 949 | 40 |
| BONITO | - | - | - | - | 2 | (1) |
| BOWFIN | 7 | (1) | - | - | 7 | (1) |
| BUFFALOFISH | 672 | 80 | 91 | 9 | 808 | 95 |
| CABIO | 4 | (1) | 9 | 1 | 29 | 2 |
| CARP | 15 | 1 | - | - | 15 | 1 |
| CATFISH AND BULLHEADS | 6,412 | 1,314 | 76 | 22 | 6,561 | 1,352 |
| CIGARFISH | - | - | - | - | 323 | 23 |
| CREVALLE | - | - | - | - | 535 | 15 |
| CROAKER | 18 | 1 | 18 | 1 | 77 | 5 |
| DOLPHIN | - | - | - | - | 24 | 1 |
| DRUM: | | | | | | |
| BLACK | 388 | 20 | 1,635 | 134 | 2,123 | 159 |
| RED | 666 | 97 | 617 | 142 | 2,208 | 346 |
| FLOUNDERS | 221 | 30 | 153 | 39 | 679 | 117 |
| GARFISH | 265 | 15 | 52 | 2 | 317 | 17 |
| GROUPERS | 16 | 2 | 56 | 5 | 6,798 | 694 |
| GRUNTS | - | - | - | - | 85 | 5 |
| HOGFISH | - | - | - | - | 35 | 5 |
| JEWFISH | - | 1 | - | - | 85 | 7 |
| KING MACKEREL | 9 | - | (1) | (1) | 1,683 | 175 |
| KING WHITING OR "KINGFISH" | 531 | 27 | 42 | 2 | 1,164 | 64 |
| MENHADEN | 581,682 | 6,748 | 134,105 | 1,408 | 1,020,433 | 11,592 |
| MOJARRA | - | - | - | - | 76 | 4 |
| MULLET: | | | | | | |
| BLACK | 12 | (1) | - | - | 34,273 | 1,879 |
| SILVER | - | - | 86 | 3 | 557 | 33 |
| PADDFISH | 7 | 1 | - | - | 12 | 1 |
| PERMIT | - | - | - | - | 20 | 2 |
| PIG FISH | - | - | - | - | 4 | (1) |
| POMPANO | 1 | (1) | 5 | 2 | 542 | 381 |
| SAWFISH | 6 | (1) | - | - | 6 | (1) |
| SCUP OR PORGY | - | - | - | - | 48 | 3 |
| SEA CATFISH | 85 | 4 | 30 | 3 | 373 | 22 |
| SEA TROUT OR WEAKFISH | - | - | - | - | - | - |
| SPOTTED | 537 | 123 | 1,117 | 278 | 4,289 | 1,023 |
| WHITE | 82 | 5 | - | - | 436 | 33 |
| SHARKS, UNCLASSIFIED | 4 | (1) | - | - | 689 | 12 |
| SHEEPSHEAD: | | | | | | |
| FRESH-WATER | 541 | 53 | 5 | (1) | 574 | 57 |
| SALT-WATER | 145 | 10 | 1 | 3 | 330 | 24 |
| SNAPPER: | | | | | | |
| MANGROVE | - | - | - | - | 262 | 40 |
| MUTTON | - | - | - | - | 90 | 18 |
| RED | 677 | 150 | 1,829 | 455 | 11,888 | 3,061 |
| VERMILION | - | - | - | - | 22 | 4 |
| YELLOWTAIL | - | - | - | - | 640 | 141 |
| SPANISH MACKEREL | 2 | (1) | (1) | (1) | 4,014 | 386 |
| SPANISH SARDINE | - | - | - | - | 36 | 1 |
| SPOT | 3 | (1) | - | - | 264 | 14 |
| STURGEON | - | - | - | - | 18 | 2 |
| TENPOUNDER | - | - | - | - | 390 | 13 |
| TILEFISH | - | - | - | - | 1 | (1) |
| TRIGGERSH | - | - | - | - | 6 | (1) |
| TRIPLETAIL | 1 | (1) | - | - | 4 | (1) |
| WARSAW | - | - | 35 | 4 | 223 | 15 |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | - | - | 109 | 5 | 1,027 | 74 |
| BAIT, REDUCTION, AND ANIMAL FOOD | 582 | 7 | 381 | 11 | 78,375 | 1,338 |
| TOTAL FISH | 593,591 | 8,689 | 140,501 | 2,529 | 1,185,433 | 23,387 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GULF FISHERIES

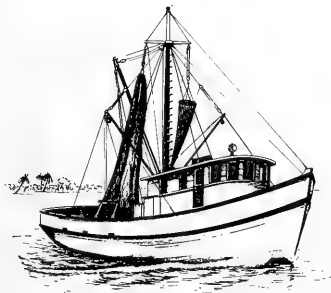
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CATCH BY STATES, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | LOUISIANA | | TEXAS | | TOTAL | |
|---------------------------------|-----------|--------|----------|--------|-----------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| SHELLFISH, ETC. | | | | | | |
| CRABS: | | | | | | |
| BLUE: | | | | | | |
| HARD | 11,910 | 514 | 2,875 | 178 | 35,258 | 1,617 |
| SOFT AND PEELER | 620 | 310 | 2 | 1 | 634 | 315 |
| STONE | - | - | - | - | 453 | 156 |
| TOTAL CRABS | 12,530 | 824 | 2,877 | 179 | 36,345 | 2,088 |
| CRAWFISH, FRESH-WATER | 1,018 | 148 | - | - | 1,018 | 148 |
| LOBSTERS, SPINY | - | - | - | - | 2,101 | 721 |
| SHRIMP | 31,027 | 8,913 | 59,766 | 21,208 | 133,795 | 43,650 |
| CLAMS, HARD, PUBLIC | - | - | - | - | 15 | 5 |
| CONCHS | - | - | - | - | 1 | (1) |
| OYSTERS, MARKET: | | | | | | |
| PUBLIC: | | | | | | |
| SPRING | 1,183 | 354 | 809 | 229 | 5,088 | 1,337 |
| FALL | 116 | 48 | 212 | 77 | 2,659 | 872 |
| PRIVATE: | | | | | | |
| SPRING | 7,450 | 1,871 | 68 | 20 | 8,700 | 2,199 |
| FALL | 1,390 | 576 | 7 | 3 | 1,793 | 717 |
| TOTAL OYSTERS | 10,139 | 2,849 | 1,096 | 329 | 18,240 | 5,125 |
| SCALLOPS, BAY | - | - | - | - | 36 | 14 |
| SQUID | 2 | (1) | 12 | 1 | 31 | 2 |
| TURTLES: | | | | | | |
| BABY | 1 | 4 | - | - | 1 | 4 |
| GREEN | 6 | 1 | - | - | 36 | 6 |
| LOGGERHEAD | - | - | - | - | 3 | (1) |
| SNAPPER | 15 | 2 | - | - | 15 | 2 |
| TOTAL TURTLES | 22 | 7 | - | - | 55 | 12 |
| FROGS | 5 | 2 | - | - | 5 | 2 |
| SPONGES: | | | | | | |
| GRASS | - | - | - | - | (1) | 1 |
| SHEEPSWOL | - | - | - | - | 36 | 362 |
| YELLOW | - | - | - | - | 1 | 4 |
| TOTAL SHELLFISH, ETC. | 54,743 | 12,743 | 62,751 | 21,717 | 191,679 | 52,134 |
| GRAND TOTAL | 648,334 | 21,432 | 203,252 | 24,246 | 1,377,112 | 75,521 |

1/ LESS THAN 500 POUNDS OR \$500.



MEDIUM SHRIMP TRAWLER

GULF FISHERIES

CATCH OF CERTAIN SHELLFISH, 1961

(NUMBER AND BUSHELS)

| SPECIES | FLORIDA, WEST COAST | | ALABAMA | | MISSISSIPPI | |
|---------------------------------------|------------------------|-----------|-----------|-----------|-------------|-------------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| CRABS: | | | | | | |
| BLUE: | | | | | | |
| HARD NUMBER | 35,629,360 | \$736,573 | 1,764,420 | \$46,072 | 5,465,232 | \$142,799 |
| SOFT AND PEELER. DO | 20,400 | 2,580 | - | - | 24,000 | 1,190 |
| STONE DO | 453,300 | 155,935 | - | - | - | - |
| CLAMS, HARD, PUBLIC. U.S. STD. BUSHEL | 2,923 | 5,462 | - | - | - | - |
| CONCHS DO | 100 | 420 | - | - | - | - |
| OYSTERS, MARKET: | | | | | | |
| PUBLIC: | | | | | | |
| SPRING DO | 168,104 | 245,041 | 67,476 | 65,796 | 487,452 | 422,864 |
| FALL DO | 452,242 | 547,015 | 16,212 | 33,244 | 139,114 | 166,985 |
| PRIVATE: | | | | | | |
| SPRING DO | 92,304 | 134,598 | 5,890 | 10,440 | 179,078 | 162,607 |
| FALL DO | 87,032 | 104,895 | 15,224 | 32,932 | - | - |
| SCALLOPS, BAY. DO | 6,873 | 13,902 | - | - | - | - |
| | | | | | | |
| SPECIES | LOUISIANA | | TEXAS | | TOTAL | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| CRABS: | | | | | | |
| BLUE: | | | | | | |
| HARD NUMBER | 23,819,796 | \$514,188 | 4,927,884 | \$177,710 | 71,606,692 | \$1,617,342 |
| SOFT AND PEELER. DO | 1,860,900 | 310,200 | 7,700 | 720 | 1,912,500 | 314,660 |
| STONE DO | - | - | - | - | 453,300 | 155,935 |
| CLAMS, HARD, PUBLIC. U.S. STD. BUSHEL | - | - | - | - | 2,923 | 5,462 |
| CONCHS DO | - | - | - | - | 100 | 420 |
| OYSTERS, MARKET: | | | | | | |
| PUBLIC: | | | | | | |
| SPRING DO | 259,410 | 354,176 | 158,353 | 228,973 | 1,140,795 | 1,336,850 |
| FALL DO | 25,861 | 47,960 | 52,163 | 76,792 | 685,592 | 871,996 |
| PRIVATE: | | | | | | |
| SPRING DO | 1,607,149 | 1,870,943 | 13,333 | 20,623 | 1,897,754 | 2,199,211 |
| FALL DO | 327,706 | 576,011 | 1,756 | 2,932 | 431,718 | 716,770 |
| SCALLOPS, BAY. DO | - | - | - | - | 6,873 | 13,902 |

NOTE:--THE CAPACITY OF A U.S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

AVERAGE WEIGHTS OF CERTAIN SHELLFISH, 1961

| SPECIES | FLORIDA, WEST COAST | ALABAMA | MISSISSIPPI | LOUISIANA | TEXAS |
|--|------------------------|----------|-------------|-----------|----------|
| | QUANTITY | QUANTITY | QUANTITY | QUANTITY | QUANTITY |
| CRABS: | | | | | |
| BLUE: | | | | | |
| HARD NUMBER PER POUND | 2.08 | 2.10 | 2.18 | 2.00 | 1.71 |
| SOFT AND PEELER. DO | 4.00 | - | 3.43 | 3.00 | 3.00 |
| STONE DO | 1.00 | - | - | - | - |
| CLAMS, HARD, PUBLIC. LBS. MEATS PER U.S. STD. BUSHEL | 5.20 | - | - | - | - |
| CONCHS DO | 14.00 | - | - | - | - |
| OYSTERS, MARKET: | | | | | |
| PUBLIC: | | | | | |
| SPRING DO | 4.60 | 5.11 | 4.06 | 4.56 | 5.11 |
| FALL DO | 3.82 | 4.25 | 3.86 | 4.50 | 4.06 |
| PRIVATE: | | | | | |
| SPRING DO | 4.60 | 5.11 | 4.06 | 4.64 | 5.10 |
| FALL DO | 3.80 | 4.25 | - | 4.24 | 4.10 |
| SCALLOPS, BAY. DO | 5.28 | - | - | - | - |

NOTE:--THE CAPACITY OF A U.S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

GULF FISHERIES

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WHOLESALING AND MANUFACTURING, 1961

| ITEM | FLORIDA, WEST COAST | ALABAMA | MISSISSIPPI | LOUISIANA | TEXAS | TOTAL |
|-----------------------------------|------------------------|---------|-------------|-----------|--------|--------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| WHOLESALING AND MANUFACTURING: | | | | | | |
| ESTABLISHMENTS | 299 | 60 | 58 | 201 | 150 | 768 |
| PERSONS ENGAGED: | | | | | | |
| AVERAGE FOR SEASON | 3,752 | 863 | 1,718 | 5,880 | 5,402 | 17,615 |
| AVERAGE FOR YEAR | 2,629 | 533 | 1,073 | 2,677 | 3,526 | 10,438 |
| FISHERMEN MANUFACTURING | - | 110 | - | - | - | 110 |

MANUFACTURED FISHERY PRODUCTS, 1961

| ITEM | FLORIDA, WEST COAST | | ALABAMA | | MISSISSIPPI | |
|---|---------------------|------------|-------------|--------------|-------------|-------------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| GROUPER, FILLETS AND STEAKS: | | | | | | |
| FRESH POUNDS | 169,043 | \$73,521 | (1) | (1) | - | - |
| FROZEN DO | 26,660 | 11,839 | (1) | (1) | - | - |
| MENHADEN: | | | | | | |
| DRY SCRAP AND MEAL TONS | (1) | (1) | - | - | 29,550 | \$3,062,224 |
| OIL GALLONS | (1) | (1) | - | - | 4,805,886 | 2,162,649 |
| SOLUBLES TONS | - | - | - | - | 11,392 | 455,672 |
| MULLET, SALTED: | | | | | | |
| FISH POUNDS | 495,657 | 59,204 | - | - | - | - |
| ROE DO | 19,800 | 14,810 | - | - | - | - |
| SNAPPER, RED, FRESH AND FROZEN FILLETS AND STEAKS | DO | 23,763 | (1) | (1) | - | - |
| CRABS, BLUE: | | | | | | |
| COOKED MEAT, FRESH AND FROZEN DO | 2,068,745 | 1,941,278 | 79,260 | \$78,780 | 337,500 | 320,625 |
| SPECIALTIES, FROZEN (BURGERS, CAKES, AND STUFFED) DO | - | - | (1) | (1) | 14,000 | 10,000 |
| CANNED STANDARD CASES | - | - | (1) | (1) | 6,218 | 125,050 |
| CRABS, STONE (FROZEN CLAWS) POUNDS | 22,463 | 16,737 | - | - | - | - |
| SHRIMP: | | | | | | |
| FRESH AND FROZEN: | | | | | | |
| RAW, HEADLESS DO | 5,238,343 | 3,704,682 | 422,325 | 335,211 | 1,091,600 | 820,780 |
| RAW, PEELED (INCLUDING DEVEINED) DO | 3,311,742 | 3,590,108 | (1) | (1) | - | - |
| BREADED DO | 10,284,251 | 7,625,457 | (1) | (1) | - | - |
| SPECIALTIES (BURGERS, CAKES, STUFFED, AND GUMBO) DO | (1) | (1) | - | - | - | - |
| CANNED STANDARD CASES | - | - | (1) | (1) | 83,454 | 1,943,895 |
| OYSTERS: | | | | | | |
| SHUCKED, FRESH AND FROZEN GALLONS | 261,891 | 1,506,039 | 144,611 | 870,441 | 116,300 | 726,875 |
| CANNED STANDARD CASES | - | - | (1) | (1) | 96,859 | 1,332,309 |
| SCALLOPS, BAY, SHUCKED UNCLASSIFIED PRODUCTS: FISH AND SHELLFISH: | | | | | | |
| FROZEN POUNDS | 2/1,095,505 | 2/509,758 | 3/3,557,738 | 3/1,562,683 | - | - |
| SHELLFISH, CANNED STANDARD CASES | - | (6) | - | (6) | - | - |
| ANIMAL FOOD, CANNED DO | - | - | - | - | 2,735,505 | 13,558,875 |
| MISSCELLANEOUS | - | 9/91,455 | - | 10/3,079,492 | - | 11/23,500 |
| TOTAL | - | 19,394,707 | - | 5,926,607 | - | 24,542,454 |

| ITEM | LOUISIANA | | TEXAS | |
|-----------------------------------|-----------|-------------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE |
| MENHADEN: | | | | |
| DRY SCRAP AND MEAL TONS | 60,543 | \$6,319,926 | (1) | (1) |
| OIL GALLONS | 9,340,476 | 4,202,328 | (1) | (1) |
| SOLUBLES TONS | 18,039 | 734,102 | (1) | (1) |

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GULF FISHERIES

MANUFACTURED FISHERY PRODUCTS, 1961 - Continued

| ITEM | LOUISIANA | | TEXAS | |
|--|-----------|------------|------------|--------------|
| | QUANTITY | VALUE | QUANTITY | VALUE |
| CRABS, BLUE: | | | | |
| COOKED MEAT, FRESH AND FROZEN POUNDS | 479,968 | \$474,464 | (1) | (1) |
| SPECIALTIES, FROZEN (BURGERS, CAKES, AND STUFFED) DO | 220,663 | 166,578 | (1) | (1) |
| CANNED STANDARD CASES | (1) | (1) | (1) | (1) |
| SHRIMP: | | | | |
| FRESH AND FROZEN: | | | | |
| RAW, HEADLESS POUNDS | 8,747,205 | 6,355,702 | 26,798,200 | \$20,777,237 |
| RAW, PEELLED (INCLUDING DEVEINED) DO | 498,786 | 540,951 | 8,222,871 | 8,927,337 |
| COOKED, PEELLED DO | 1,332,824 | 2,354,311 | 6,000 | 12,000 |
| BREADED DO | 1,675,951 | 1,218,077 | 30,803,600 | 22,972,515 |
| SPECIALTIES (BURGERS, CAKES, STUFFED, AND GUMBO) DO | 579,843 | 410,414 | (1) | (1) |
| CANNED STANDARD CASES | 350,288 | 6,816,266 | (1) | (1) |
| SUN-DRIED POUNDS | 418,043 | 744,798 | - | - |
| OYSTERS: | | | | |
| SHUCKED, FRESH AND FROZEN GALLONS | 331,976 | 2,133,793 | 107,906 | 697,614 |
| CANNED STANDARD CASES | 227,741 | 2,767,596 | - | - |
| UNCLASSIFIED PRODUCTS: | | | | |
| FISH AND SHELLFISH, FROZEN POUNDS | 4/129,463 | 4/68,593 | 5/685,850 | 5/604,821 |
| SHELLFISH, CANNED STANDARD CASES | 7/ 5,066 | 7/108,556 | 8/ 27,844 | 8/570,367 |
| MISCELLANEOUS - | - | 12/15,291 | - | 13/4,012,108 |
| TOTAL - | - | 37,431, 91 | - | 58,573,999 |

1/ INCLUDED WITH "UNCLASSIFIED PRODUCTS." 2/ INCLUDES FROZEN SPANISH MACKEREL AND WARSAW FILLETS, COOKED SPINY LOBSTER TAILS, SHRIMP DINNERS, STUFFED SHRIMP, BREADED OYSTERS AND SCALLOPS, AND SHUCKED HARD CLAMS. 3/ INCLUDES FRESH AND FROZEN GROUPER AND RED SNAPPER FILLETS AND STEAKS; FROZEN RAW FISH PORTIONS, BREADED FISH PORTIONS AND STICKS, CRAB ROLLS, DEVILED CRABS, AND BREADED SHRIMP. 4/ INCLUDES FROZEN STUFFED FLOUNDERS, CRAWFISH BISQUE, BREADED OYSTERS, OYSTER BURGERS, STUFFED OYSTERS, AND SHELLFISH GUMBO. 5/ INCLUDES FROZEN FILLETS OF BLACK DRUM, RED DRUM, AND SEA TROUT, STUFFED FLOUNDER, FISH CAKES, COOKED CRAB MEAT, DRESSED CRABS, STUFFED CRAB AND SHRIMP AND BREADED OYSTERS. 6/ INCLUDED WITH MISCELLANEOUS. 7/ INCLUDES CANNED CRAB MEAT, CRAB BISQUE, CRAB GUMBO, CRAWFISH BISQUE, SHRIMP BISQUE, CREOLE, GUMBO, AND STEW, OYSTER STEW, TURTLE SOUP, AND SHELLFISH GUMBO. 8/ INCLUDES CANNED CRAB MEAT AND SHRIMP. 9/ INCLUDES THE VALUE OF SMOKED MULLET SPREAD; CANNED CONCH AND TURTLE CHOWDER; CRAB BACK SHELLS; MENHADEN MEAL AND OIL; AND SHRIMP MEAL. 10/ INCLUDES THE VALUE OF CANNED CRAB MEAT, SHRIMP AND OYSTERS; AND OYSTER SHELL POULTRY GRIT. 11/ INCLUDES THE VALUE OF FISH AND CRAB MEAL. 12/ INCLUDES THE VALUE OF DRIED SPECKLED TROUT, AND SHRIMP MEAL. 13/ INCLUDES THE VALUE OF CRAB BACK SHELLS; OYSTER SHELL POULTRY GRIT AND LIME; AND MENHADEN MEAL, OIL AND SOLUTIONS.

NOTE:--SOME OF THE ABOVE PRODUCTS MAY HAVE BEEN MANUFACTURED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR A FOREIGN COUNTRY; THEREFORE, THEY CANNOT BE CORRELATED DIRECTLY WITH THE CATCH WITHIN THE STATE.

SUMMARY OF MANUFACTURED PRODUCTS, 1961

(VALUE IN THOUSANDS OF DOLLARS)

| ITEM | QUANTITY | VALUE |
|--|----------|---------|
| PACKAGED, FRESH AND FROZEN: | | |
| NOT BREADED: | | |
| FISH 1,000 POUNDS | 952 | 348 |
| SHELLFISH DO | 67,610 | 56,716 |
| BREADED, FISH AND SHELLFISH DO | 45,766 | 33,143 |
| SPECIALTIES DO | 1,659 | 1,462 |
| CANNED 1,000 STANDARD CASES | 3,555 | 27,696 |
| CURED (SALTED, SMOKED, AND SUN-DRIED) 1,000 POUNDS | 946 | 831 |
| INDUSTRIAL PRODUCTS - | - | 23,674 |
| TOTAL - | - | 143,670 |

VALUE OF MANUFACTURED PRODUCTS, 1961

(THOUSANDS OF DOLLARS)

| STATE | VALUE |
|-------------------------------|---------|
| FLORIDA, WEST COAST | 19,395 |
| ALABAMA | 5,927 |
| MISSISSIPPI | 24,542 |
| LOUISIANA | 35,432 |
| TEXAS | 58,574 |
| TOTAL | 143,870 |

GULF FISHERIES

FLORIDA - WEST COAST

241

OPERATING UNITS BY GEAR, 1961

| ITEM | HAUL SEINES, COMMON | PURSE SEINES | | OTTER TRAWLS, SHRIMP | POTS AND TRAPS | | |
|--------------------------|------------------------|--------------|--------|----------------------------|----------------|--------|--------|
| | | MENHADEN | OTHER | | CRAB | | FISH |
| | | | | | BLUE | OTHER | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | | |
| ON VESSELS | 80 | 48 | - | 2,091 | - | - | - |
| ON BOATS AND SHORE: | | | | | | | |
| REGULAR | 175 | - | 4 | 147 | 221 | 66 | 6 |
| CASUAL | 20 | - | - | 10 | 12 | 15 | - |
| TOTAL | 275 | 48 | 4 | 2,248 | 233 | 81 | 6 |
| VESSELS, MOTOR | 10 | 2 | - | 875 | - | - | - |
| GROSS TONNAGE | 132 | 262 | - | 41,250 | - | - | - |
| BOATS: | | | | | | | |
| MOTOR | 47 | 4 | 2 | 104 | 217 | 69 | 5 |
| OTHER | 42 | 2 | - | - | - | - | - |
| GEAR: | | | | | | | |
| NUMBER | 53 | 2 | 2 | 1,750 | 30,358 | 13,604 | 216 |
| LENGTH, YARDS | 39,500 | 800 | 400 | - | - | - | - |
| YARDS AT MOUTH | - | - | - | 2,868 | - | - | - |

| ITEM | POTS AND TRAPS- CONTINUED | GILL NETS | | | TRAMMEL NETS | LINES | | |
|--------------------------|---------------------------------|-------------------|----------------------------|-----------|-----------------|-----------|-------|-------|
| | | LOBSTER, SPINY | ANCHOR, SET OR STAKE | DRIFT | | RUNAROUND | HAND | TROLL |
| | | | | | | | | |
| FISHERMEN: | | | | | | | | |
| ON VESSELS | 32 | - | 16 | 133 | 22 | 1,046 | 72 | |
| ON BOATS AND SHORE: | | | | | | | | |
| REGULAR | 170 | 4 | 30 | 1,077 | 362 | 482 | 316 | |
| CASUAL | 11 | - | 1 | 115 | 19 | 932 | 464 | |
| TOTAL | 213 | 4 | 49 | 1,325 | 403 | 2,460 | 852 | |
| VESSELS, MOTOR | 16 | - | 6 | 40 | 8 | 219 | 36 | |
| GROSS TONNAGE | 166 | - | 61 | 441 | 87 | 4,583 | 421 | |
| BOATS: | | | | | | | | |
| MOTOR | 124 | 3 | 16 | 805 | 270 | 1,086 | 604 | |
| OTHER | - | - | - | 135 | 10 | - | - | |
| GEAR: | | | | | | | | |
| NUMBER | 39,990 | 7 | 22 | 981 | 288 | 2,605 | 1,648 | |
| SQUARE YARDS | - | 3,600 | 61,500 | 1,374,340 | 358,970 | - | - | |
| HOOKS OR BAITS | - | - | - | - | - | 5,616 | 1,648 | |

| ITEM | LINES - CONTINUED | | DIP NETS | | CAST NETS | SPEARS | DREDGES, SCALLOP |
|--------------------------|------------------------------|-----------------------|----------|------|--------------|--------|---------------------|
| | LONG OR SET WITH HOOKS | TROT WITH BAITS | COMMON | DROP | | | |
| | | | | | | | |
| FISHERMEN: | | | | | | | |
| ON VESSELS | 4 | - | - | - | - | - | - |
| ON BOATS AND SHORE: | | | | | | | |
| REGULAR | 11 | 47 | 15 | 4 | 4 | 46 | 24 |
| CASUAL | 7 | - | 22 | 2 | 26 | 4 | 1 |
| TOTAL | 22 | 47 | 37 | 6 | 30 | 50 | 25 |
| VESSELS, MOTOR | 2 | - | - | - | - | - | - |
| GROSS TONNAGE | 46 | - | - | - | - | - | - |
| BOATS, MOTOR | 15 | 46 | 36 | 5 | 24 | 50 | 24 |
| GEAR: | | | | | | | |
| NUMBER | 23 | 46 | 37 | 60 | 30 | 50 | 32 |
| HOOKS OR BAITS | 19,640 | 29,100 | - | - | - | - | - |
| YARDS AT MOUTH | - | - | - | - | - | - | - |

| ITEM | TONGS | | RAKES | HOOKS, SPONGE | DIVING OUTFITS, SPONGE | BY HAND | | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|--------------------------|--------|-------|-------|------------------|------------------------------|---------|-------|--|
| | OYSTER | OTHER | | | | OYSTER | OTHER | |
| | | | | | | | | |
| FISHERMEN: | | | | | | | | |
| ON VESSELS | - | - | - | - | 60 | - | - | 3,411 |
| ON BOATS AND SHORE: | | | | | | | | |
| REGULAR | 536 | 2 | 3 | 67 | 12 | 22 | 6 | 2,678 |
| CASUAL | 33 | - | 3 | 84 | - | 12 | 16 | 1,300 |
| TOTAL | 569 | 2 | 6 | 151 | 72 | 34 | 22 | 7,389 |
| VESSELS, MOTOR | - | - | - | - | 10 | - | - | 1,141 |
| GROSS TONNAGE | - | - | - | - | 144 | - | - | 46,132 |
| BOATS: | | | | | | | | |
| MOTOR | 487 | 2 | 3 | 50 | 2 | 29 | 16 | 2,946 |
| OTHER | 21 | - | - | 34 | - | - | 2 | 229 |
| GEAR, NUMBER | 569 | 2 | 6 | 84 | 12 | - | - | - |

GULF FISHERIES

FLORIDA, WEST COAST - CATCH BY GEAR, 1961

| SPECIES | HAUL SEINES | | PURSE SEINES | | OTTER TRAWLS | |
|--|-------------|---------|--------------|---------|--------------|------------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | 135,900 | \$5,436 | - | - | - | - |
| BALLYHOO | - | - | 61,800 | \$8,652 | - | - |
| BLUEFISH | 129,700 | 14,267 | - | - | - | - |
| BLUE RUNNER | 437,600 | 16,379 | - | - | - | - |
| CABIO | - | 23 | - | - | - | - |
| CATFISH AND BULLHEADS | - | - | - | - | 200 | \$32 |
| CIGARFISH | 261,300 | 19,691 | - | - | - | - |
| CREVALLE | 264,300 | 7,401 | - | - | - | - |
| CROAKER | 9,700 | 794 | - | - | - | - |
| DRUM: | | | | | | |
| BLACK | 27,500 | 1,210 | - | - | - | - |
| RED | 105,200 | 11,891 | - | - | - | - |
| FLOUNDERS | 15,400 | 2,542 | - | - | 87,800 | 14,467 |
| GRUNTS | 1,400 | 69 | - | - | - | - |
| KING MACKEREL | 25,100 | 2,611 | - | - | - | - |
| KING WHITING OR "KINGFISH" | 18,700 | 1,214 | - | - | 136,700 | 8,886 |
| MEHADEN | 12,500 | 313 | 3,350,000 | 31,530 | - | - |
| MOJARRA | 17,600 | 1,056 | - | - | - | - |
| MULLET: | | | | | | |
| BLACK | 4,411,600 | 242,637 | - | - | - | - |
| SILVER | 14,200 | 695 | - | - | - | - |
| PERMIT | 3,600 | 342 | - | - | - | - |
| PIGFISH | 800 | 56 | - | - | - | - |
| POMPANO | 20,200 | 14,342 | - | - | - | - |
| SEA CATFISH | 138,900 | 8,753 | - | - | 5,800 | 365 |
| SEA TROUT OR WEAKFISH: | | | | | | |
| SPOTTED | 179,800 | 42,074 | - | - | - | - |
| WHITE | 55,200 | 5,022 | - | - | - | - |
| SHEEPSHEAD, SALT-WATER | 14,200 | 1,250 | - | - | - | - |
| SNAPPER: | | | | | | |
| MANGROVE | 900 | 138 | - | - | - | - |
| RED | - | - | - | - | 300 | 80 |
| SPANISH MACKEREL | 177,700 | 17,059 | - | - | - | - |
| SPANISH SARDINES | 36,500 | 730 | - | - | - | - |
| SPOT | 75,300 | 4,066 | - | - | 9,600 | 518 |
| STURGEON | - | - | - | - | 100 | 17 |
| TENPOUNDER | 272,700 | 8,997 | - | - | - | - |
| TRIPLETAIL | 300 | 16 | - | - | - | 77 |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | 192,100 | 14,407 | - | - | 51,400 | 3,855 |
| BAIT, REDUCTION, AND ANIMAL FOOD | 110,000 | 2,530 | - | - | 16,000 | 368 |
| CRABS, BLUE, HARD | - | - | - | - | 64,100 | 2,757 |
| LOBSTERS, SPINY | - | - | - | - | 20,800 | 7,135 |
| SHRIMP | - | - | - | - | 36,068,600 | 11,093,751 |
| SQUID | - | - | - | - | 13,200 | 1,069 |
| TURTLES: | | | | | | |
| GREEN | - | - | - | - | 1,600 | 240 |
| LOGGERHEAD | - | - | - | - | 2,700 | 405 |
| TOTAL | 7,186,300 | 450,231 | 3,411,600 | 40,162 | 36,480,300 | 11,134,042 |

| SPECIES | POTS AND TRAPS | | GILL NETS | | | |
|--|----------------|-----------|----------------------|---------|---------|--------|
| | | | ANCHOR, SET OR STAKE | | DRIFT | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BLUEFISH | - | - | - | - | 2,800 | \$308 |
| BLUE RUNNER | 7,800 | \$327 | - | - | - | - |
| CATFISH AND BULLHEADS | 7,700 | 1,217 | - | - | - | - |
| MULLET, BLACK | - | - | - | - | 29,400 | 1,617 |
| POMPANO | - | - | - | - | 4,600 | 3,256 |
| SPANISH MACKEREL | - | - | - | - | 333,500 | 32,016 |
| STURGEON | - | - | 7,400 | \$1,266 | 6,200 | 1,060 |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | - | - | - | - | 200 | 15 |
| BAIT, REDUCTION, AND ANIMAL FOOD | - | - | - | - | 1,700 | 40 |
| CRABS: | | | | | | |
| BLUE: | | | | | | |
| HARD | 16,064,700 | 690,786 | - | - | - | - |
| SOFT AND PEELER | 5,100 | 2,550 | - | - | - | - |
| STONE | 453,300 | 155,935 | - | - | - | - |
| LOBSTERS, SPINY | 2,070,800 | 710,264 | - | - | - | - |
| TOTAL | 16,609,400 | 1,561,099 | 7,400 | 1,266 | 378,400 | 38,322 |

(CONTINUED ON NEXT PAGE)

GULF FISHERIES

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FLORIDA, WEST COAST - CATCH BY GEAR, 1961 - Continued

| SPECIES | GILL NETS - CONTINUED | | | | LINES | |
|--|-----------------------|------------------|------------------|----------------|-------------------|------------------|
| | RUNAROUND | | TRAMMEL NETS | | HAND | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | 133,500 | \$5,340 | 11,400 | \$456 | - | - |
| AMBERJACK | - | - | - | - | 5,800 | \$261 |
| BARRACUDA | - | - | - | - | 6,000 | 318 |
| BLUEFISH | 335,600 | 36,916 | 72,200 | 7,942 | 50,200 | 5,522 |
| BLUE RUNNER | 399,900 | 16,796 | 64,700 | 2,718 | 30,500 | 1,281 |
| CABIO | 300 | 17 | - | - | 14,300 | 801 |
| CIGARFISH | 41,800 | 2,926 | - | - | - | - |
| CREVALLE | 176,900 | 4,938 | 44,800 | 1,254 | 48,100 | 1,346 |
| CROAKER | 6,500 | 533 | 1,100 | 90 | 5,700 | 466 |
| DOLPHIN | - | - | - | - | 200 | 12 |
| DRUM: | - | - | - | - | - | - |
| BLACK | 24,700 | 1,086 | 8,200 | 362 | 14,500 | 638 |
| RED | 529,200 | 59,800 | 72,500 | 8,191 | 140,600 | 15,889 |
| FLOUNDERS | 8,000 | 1,319 | 10,500 | 1,732 | 11,900 | 1,964 |
| GROUPERS | - | - | - | - | 6,370,500 | 643,420 |
| GRUNTS | 1,000 | 63 | 300 | 19 | 82,600 | 5,203 |
| HOGFISH | - | - | - | - | 35,300 | 5,260 |
| JEWFISH | - | - | - | - | 50,600 | 3,642 |
| KING MACKEREL | 58,400 | 6,074 | - | - | 9,500 | 988 |
| KING WHITING OR "KINGFISH" | 15,600 | 1,014 | 5,200 | 338 | 2,500 | 162 |
| MENHADEN | 9,400 | 235 | 3,300 | 82 | - | - |
| MOJARRA | 46,800 | 2,808 | 700 | 42 | 10,900 | 653 |
| MULLET: | - | - | - | - | - | - |
| BLACK | 27,044,500 | 1,487,450 | 1,443,800 | 79,409 | - | - |
| SILVER | 438,900 | 27,652 | 17,500 | 1,103 | - | - |
| PERMIT | 9,400 | 894 | 1,700 | 162 | 4,900 | 466 |
| PIGFISH | 1,300 | 93 | 1,200 | 85 | 1,000 | 70 |
| POMPANO | 55,300 | 39,263 | 447,100 | 317,441 | 800 | 568 |
| SCUP OR PORGY | - | - | - | - | 48,400 | 3,532 |
| SEA CATFISH | 56,500 | 3,561 | 18,100 | 1,140 | 6,100 | 383 |
| SEA TROUT OR WEAKFISH: | - | - | - | - | - | - |
| WHITE | 1,468,700 | 343,674 | 469,100 | 109,771 | 220,400 | 51,574 |
| SHEEPSHEAD, SALT-WATER | 151,500 | 13,767 | 28,400 | 2,584 | 16,100 | 1,465 |
| SNAPPER: | 8,000 | 705 | 4,400 | 387 | 37,000 | 3,254 |
| MANGROVE | 12,700 | 1,943 | 3,400 | 519 | 245,100 | 37,500 |
| MUTTON | - | - | - | - | 89,900 | 17,622 |
| RED | - | - | - | - | 5,445,600 | 1,448,529 |
| VERMILION | - | - | - | - | 21,600 | 3,888 |
| YELLOWTAIL | - | - | - | - | 639,900 | 140,778 |
| SPANISH MACKEREL | 3,100,000 | 297,602 | 86,200 | 8,275 | 151,300 | 14,525 |
| SPOT | 112,100 | 6,055 | 20,400 | 1,101 | 16,300 | 879 |
| TENPOUNDER | 105,400 | 3,479 | 4,100 | 135 | 6,400 | 211 |
| TILEFISH | - | - | - | - | 1,200 | 120 |
| TRIGGERFISH | - | - | - | - | 6,500 | 332 |
| TRIPLETAIL | - | - | - | - | 1,000 | 55 |
| WARSAW | - | - | - | - | 188,100 | 12,723 |
| UNCLASSIFIED: | - | - | - | - | - | - |
| FOR FOOD: | 463,200 | 34,737 | 42,500 | 3,187 | 168,400 | 12,633 |
| BAIT, REDUCTION, AND ANIMAL FOOD | 320,900 | 7,381 | 93,100 | 2,141 | 12,200 | 280 |
| TURTLES, GREEN | 28,700 | 4,299 | - | - | - | - |
| TOTAL | 35,164,700 | 2,412,440 | 2,975,900 | 550,666 | 14,217,900 | 2,437,213 |

| SPECIES | LINES - CONTINUED | | | | | |
|---------------------------------|-------------------|----------------|------------------------|---------------|------------------|---------------|
| | TROLL | | LONG OR SET WITH HOOKS | | TROT WITH BAITS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| AMBERJACK | 1,100 | \$50 | - | - | - | - |
| BARRACUDA | 2,500 | 133 | - | - | - | - |
| BLUEFISH | 33,400 | 3,674 | - | - | - | - |
| BLUE RUNNER | 6,100 | 255 | - | - | - | - |
| BONITO | 2,500 | 150 | - | - | - | - |
| CATFISH AND BULLHEADS | - | - | 13,900 | \$2,196 | - | - |
| CREVALLE | 1,300 | 36 | - | - | - | - |
| DOLPHIN | 23,500 | 1,457 | - | - | - | - |
| KING MACKEREL | 1,590,100 | 165,370 | - | - | - | - |
| SEA TROUT OR WEAKFISH: | - | - | - | - | - | - |
| SPOTTED | 42,800 | 10,015 | - | - | - | - |
| WHITE | 900 | 27 | - | - | - | - |
| SHARKS, UNCLASSIFIED | - | - | 685,200 | 11,649 | - | - |
| SPANISH MACKEREL | 139,400 | 13,382 | - | - | - | - |
| CRABS, BLUE, HARD | - | - | - | - | 1,000,700 | \$43,030 |
| TOTAL | 1,843,000 | 194,549 | 699,100 | 13,845 | 1,000,700 | 43,030 |

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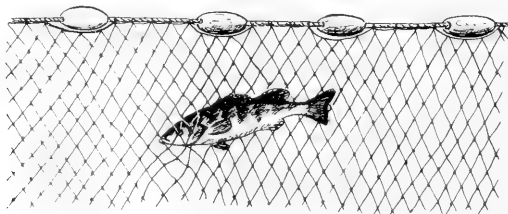
GULF FISHERIES

FLORIDA, WEST COAST - CATCH BY GEAR, 1961 - Continued

| SPECIES | DIP NETS | | CAST NETS | | SPEARS | |
|---|----------|---------|-----------|---------|--------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| FLOJIDERS | - | - | - | - | 14,900 | \$2,458 |
| MULLET, BLACK | - | - | 34,700 | \$1,909 | - | - |
| UNCLASSIFIED: FOR FOOD | - | - | 500 | 38 | - | - |
| BAIT, REDUCTION, AND ANIMAL FOOD | - | - | 200 | 5 | - | - |
| LOBSTERS, SPINY | 9,600 | \$3,361 | - | - | - | - |
| TOTAL | 9,600 | 3,361 | 35,400 | 1,952 | 14,900 | 2,458 |

| SPECIES | DREDGES | | TONGS | | RAKES | |
|---|---------|----------|-----------|-----------|--------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| CLAMS, HARD, PUBLIC | - | - | 8,600 | \$3,096 | - | - |
| OYSTERS, MARKET: PUBLIC: SPRING | - | - | 753,500 | 238,859 | 6,400 | \$2,029 |
| FALL | - | - | 1,709,100 | 541,765 | 7,200 | 2,282 |
| PRIVATE: SPRING | - | - | 424,600 | 134,598 | - | - |
| FALL | - | - | 330,900 | 104,695 | - | - |
| SCALLOPS, BAY | 36,000 | \$13,788 | - | - | - | - |
| TOTAL | 36,000 | 13,788 | 3,226,700 | 1,023,233 | 13,600 | 4,311 |

| SPECIES | HOOKS | | DIVING OUTFITS | | BY HAND | |
|--|--------|----------|----------------|---------|---------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| CLAMS, HARD, PUBLIC | - | - | - | - | 6,600 | \$2,366 |
| CONCHES | - | - | - | - | 1,400 | 420 |
| OYSTERS, MARKET, PUBLIC: SPRING | - | - | - | - | 13,100 | 4,153 |
| FALL | - | - | - | - | 9,300 | 2,948 |
| SCALLOPS, BAY | - | - | - | - | 300 | 114 |
| SPONGES: GRASS | - | - | 100 | \$801 | - | - |
| SHEEPSWOL | 4,800 | \$42,851 | 30,700 | 318,736 | - | - |
| YELLOW | 1,100 | 3,248 | 200 | 1,010 | - | - |
| TOTAL | 5,900 | 46,099 | 31,000 | 320,547 | 30,700 | 10,001 |



GILL NET

GULF FISHERIES

245

ALABAMA

OPERATING UNITS BY GEAR, 1961

| ITEM | OTTER TRAWLS, SHRIMP | FYKE AND HOOP NETS, FISH | POTS AND TRAPS | |
|--------------------------|-------------------------|--------------------------------|----------------|--------|
| | | | CRAB | FISH |
| | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | |
| ON VESSELS | 462 | - | - | - |
| ON BOATS AND SHORE: | | | | |
| REGULAR | 315 | 10 | 50 | 4 |
| CASUAL | 40 | 6 | - | 8 |
| TOTAL | 817 | 16 | 50 | 12 |
| VESSELS, MOTOR | 187 | - | - | - |
| GROSS TONNAGE | 6,081 | - | - | - |
| BOATS, MOTOR | 192 | 16 | 45 | 12 |
| GEAR: | | | | |
| NUMBER | 498 | 450 | 5,000 | 230 |
| YARDS AT MOUTH | 7,043 | - | - | - |

| ITEM | GILL NETS, RUNAROUND | TRAMMEL NETS | LINES | |
|--------------------------|-------------------------|-----------------|--------|---------------------------|
| | | | HAND | LONG OR SET WITH HOOKS |
| | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | |
| ON VESSELS | - | - | 119 | - |
| ON BOATS AND SHORE: | | | | |
| REGULAR | 20 | 100 | 6 | 2 |
| CASUAL | - | 8 | 20 | - |
| TOTAL | 20 | 108 | 145 | 2 |
| VESSELS, MOTOR | - | - | 13 | - |
| GROSS TONNAGE | - | - | 610 | - |
| BOATS: | | | | |
| MOTOR | 16 | 40 | 24 | 2 |
| OTHER | - | 56 | - | - |
| GEAR: | | | | |
| NUMBER | 16 | 96 | 133 | 2 |
| SQUARE YARDS | 8,400 | 80,000 | - | - |
| HOOKS OR BAITS | - | - | 668 | 600 |

| ITEM | LINES - CONTINUED | | SPEARS | TONGS, OYSTER | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|--------------------------|--------------------|--------|--------|------------------|--|
| | TROT WITH BAITS | SNAG | | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | |
| ON VESSELS | - | - | - | - | 581 |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | 21 | 4 | 11 | 592 | 657 |
| CASUAL | 7 | 4 | 14 | 160 | 201 |
| TOTAL | 28 | 8 | 25 | 752 | 1,439 |
| VESSELS, MOTOR | - | - | - | - | 200 |
| GROSS TONNAGE | - | - | - | - | 6,691 |
| BOATS: | | | | | |
| MOTOR | 28 | 8 | - | 410 | 525 |
| OTHER | - | - | 9 | 115 | 176 |
| GEAR: | | | | | |
| NUMBER | 28 | 150 | 25 | 752 | - |
| HOOKS OR BAITS | 14,000 | 45,000 | - | - | - |

GULF FISHERIES

ALABAMA - CATCH BY GEAR, 1961

| SPECIES | OTTER TRAWLS | | FYKE AND HOOP NETS | | POTS AND TRAPS | | GILL NETS, RUNAROUND | |
|-------------------------------------|--------------|-----------|--------------------|---------|----------------|--------|----------------------|--------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BLUEFISH | - | - | - | - | - | - | 2,900 | \$209 |
| BLUE RUNNER | - | - | - | - | - | - | 300 | 16 |
| BUFFALOFISH | - | - | 28,000 | \$3,581 | 5,000 | \$600 | 12,100 | 1,452 |
| CATFISH AND BULLHEADS | - | - | 17,000 | 4,308 | 20,000 | 5,060 | 2,000 | 500 |
| CROAKER | 100 | \$5 | - | - | - | - | - | - |
| FLOUNDERS | 83,600 | 13,963 | - | - | - | - | - | - |
| GROUPERS | 1,200 | 146 | - | - | - | - | - | - |
| JEWFISH | 1,900 | 148 | - | - | - | - | - | - |
| KING WHITING OR "KINGFISH". | 157,600 | 7,308 | - | - | - | - | 2,400 | 109 |
| MULLET, BLACK | - | - | - | - | - | - | 52,000 | 2,579 |
| PADDLEFISH | - | - | 4,900 | 391 | - | - | - | - |
| POMPANO | 100 | 42 | - | - | - | - | 7,000 | 3,044 |
| SEA CATFISH | 21,300 | 965 | - | - | - | - | 1,500 | 72 |
| SEA TROUT OR WEAKFISH: | | | | | | | | |
| SPOTTED | - | - | - | - | - | - | 17,200 | 4,300 |
| WHITE | 33,400 | 1,589 | - | - | - | - | - | - |
| SHEEPSHEAD: | | | | | | | | |
| FRESH-WATER | - | - | 32,000 | 3,975 | - | - | - | - |
| SALT-WATER | 2,600 | 128 | - | - | - | - | - | - |
| SNAPPER, RED | 23,000 | 3,860 | - | - | - | - | - | - |
| SPANISH MACKEREL | 100 | 11 | - | - | - | - | 15,200 | 1,756 |
| STURGEON | - | - | - | - | - | - | 3,500 | 328 |
| TENPOUNDER | - | - | - | - | - | - | 1,300 | 26 |
| CRABS, BLUE, HARD | - | - | - | - | 420,000 | 22,751 | - | - |
| SHRIMP | 3,525,400 | 1,153,538 | - | - | - | - | - | - |
| SQUID | 4,000 | 234 | - | - | - | - | - | - |
| TOTAL | 3,854,300 | 1,181,937 | 81,900 | 12,255 | 445,000 | 28,411 | 117,400 | 14,391 |

| SPECIES | TRAMMEL NETS | | LINES | | | | | | | | |
|-------------------------------------|--------------|--------|-----------|---------|------------------------|-------|-----------------|---------|----------|-------|---|
| | | | HAND | | LONG OR SET WITH HOOKS | | TROT WITH BAITS | | | | |
| | | | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | |
| BLUEFISH | 700 | \$45 | - | - | - | - | - | - | - | - | - |
| BLUE RUNNER | 1,300 | 66 | - | - | - | - | - | - | - | - | - |
| CABIO | - | - | 700 | \$58 | - | - | - | - | - | - | - |
| CATFISH AND BULLHEADS | - | - | - | - | 2,000 | \$500 | - | - | - | - | - |
| CROAKER | 14,700 | 659 | - | - | - | - | - | - | - | - | - |
| DRUM: | | | | | | | | | | | |
| BLACK | 1,700 | 98 | - | - | - | - | - | - | - | - | - |
| RED | 23,100 | 3,145 | 1,200 | 178 | - | - | - | - | - | - | - |
| FLOUNDERS | 2,200 | 440 | - | - | - | - | - | - | - | - | - |
| GROUPERS | - | - | 220,100 | 28,194 | - | - | - | - | - | - | - |
| JEWFISH | - | - | 23,000 | 1,678 | - | - | - | - | - | - | - |
| KING WHITING OR "KINGFISH". | 2,300 | 106 | - | - | - | - | - | - | - | - | - |
| MULLET, BLACK | 845,200 | 43,334 | - | - | - | - | - | - | - | - | - |
| SEA CATFISH | 2,200 | 100 | - | - | - | - | - | - | - | - | - |
| SEA TROUT OR WEAKFISH: | | | | | | | | | | | |
| SPOTTED | 60,000 | 15,167 | 4,600 | 1,210 | - | - | - | - | - | - | - |
| SHEEPSHEAD, SALT-WATER | 18,200 | 918 | - | - | - | - | - | - | - | - | - |
| SNAPPER, RED | - | - | 1,761,200 | 465,646 | - | - | - | - | - | - | - |
| SPOT | 25,900 | 1,305 | - | - | - | - | - | - | - | - | - |
| CRABS, BLUE, HARD | - | - | - | - | - | - | - | 418,100 | \$23,321 | - | - |
| TOTAL | 997,500 | 65,383 | 2,011,000 | 496,964 | 2,000 | 500 | 418,100 | 23,321 | - | - | - |

| SPECIES | LINES - CONTINUED | | SPEARS | | TONGS | |
|---------------------------------|-------------------|---------|--------|---------|---------|----------|
| | SNAG | | POUNDS | VALUE | POUNDS | VALUE |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| CATFISH AND BULLHEADS | 10,100 | \$2,525 | - | - | - | - |
| FLOUNDERS | - | - | 11,700 | \$2,420 | - | - |
| OYSTERS, MARKET: | | | | | | |
| PUBLIC: | | | | | | |
| SPRING | - | - | - | - | 344,800 | \$85,796 |
| FALL | - | - | - | - | 68,900 | 33,244 |
| PRIVATE: | | | | | | |
| SPRING | - | - | - | - | 30,100 | 10,440 |
| FALL | - | - | - | - | 64,700 | 32,932 |
| TOTAL | 10,100 | 2,525 | 11,700 | 2,420 | 508,500 | 162,412 |

GULF FISHERIES

247

MISSISSIPPI

OPERATING UNITS BY GEAR

| ITEM | PURSE SEINES, MENHADEN | OTTER TRAWLS | | POTS AND TRAPS, CRAB | GILL NETS, RUNAROUND | TRAMMEL NETS |
|--------------------------|---------------------------|--------------|--------|-------------------------|-------------------------|-----------------|
| | | FISH | SHRIMP | | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | |
| ON VESSELS | 381 | 239 | 1,152 | - | - | 26 |
| ON BOATS AND SHORE: | | | | | | |
| REGULAR | - | - | 208 | 55 | 4 | 35 |
| CASUAL | - | - | 200 | 4 | - | 4 |
| TOTAL | 381 | 239 | 1,560 | 59 | 4 | 65 |
| VESSELS, MOTOR | 18 | 92 | 447 | - | - | 9 |
| GROSS TONNAGE | 5,376 | 3,757 | 15,142 | - | - | 140 |
| BOATS: | | | | | | |
| MOTOR | 36 | - | 346 | 48 | 4 | 48 |
| OTHER | 17 | - | - | - | - | 5 |
| GEAR: | | | | | | |
| NUMBER | 18 | 127 | 1,056 | 6,460 | 4 | 39 |
| LENGTH, YARDS | 7,540 | - | - | - | 2,400 | 31,800 |
| SQUARE YARDS | - | - | - | - | - | - |
| YARDS AT MOUTH | - | 2,376 | 15,327 | - | - | - |

| ITEM | LINES | | CAST NETS | SPEARS | DREDGES, OYSTER, COMMON | TONGS, OYSTER | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|--------------------------|--------|--------------------|--------------|--------|-------------------------------|------------------|--|
| | HAND | TROT WITH BAITS | | | | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | | |
| ON VESSELS | 94 | - | - | - | 463 | - | 1,960 |
| ON BOATS AND SHORE: | | | | | | | |
| REGULAR | - | 13 | 2 | - | 30 | 539 | 753 |
| CASUAL | 80 | 2 | 5 | 11 | 24 | 145 | 367 |
| TOTAL | 174 | 15 | 7 | 11 | 517 | 684 | 3,080 |
| VESSELS, MOTOR | 12 | - | - | - | 162 | - | 567 |
| GROSS TONNAGE | 456 | - | - | - | 3,542 | - | 23,668 |
| BOATS: | | | | | | | |
| MOTOR | 70 | 15 | - | - | 27 | 551 | 998 |
| OTHER | 2 | - | - | - | - | 123 | 147 |
| GEAR: | | | | | | | |
| NUMBER | 164 | 15 | 7 | 11 | 378 | 674 | - |
| HOOKS OR BAITS | 584 | 7,500 | - | - | - | - | - |
| YARDS AT MOUTH | - | - | - | - | 453 | - | - |

MISSISSIPPI - CATCH BY GEAR, 1961

| SPECIES | PURSE SEINES | | OTTER TRAWLS | | POTS AND TRAPS | | GILL NETS, RUNAROUND | |
|---|--------------|-------------|--------------|-----------|----------------|-----------|-------------------------|-------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BLUEFISH | - | - | - | - | - | - | 8,000 | \$800 |
| CROAKER | - | - | 300 | \$10 | - | - | - | - |
| DRUM: | | | | | | | | |
| BLACK | - | - | 900 | 72 | - | - | - | - |
| RED | - | - | 600 | 90 | - | - | - | - |
| FLOUNDERS | - | - | 56,500 | 6,780 | - | - | - | - |
| KING WHITING OR "KINGFISH". | - | - | 249,600 | 14,977 | - | - | - | - |
| MENHADEN | 301,270,800 | \$3,404,351 | - | - | - | - | - | - |
| POMPANO | - | - | 500 | 200 | - | - | - | - |
| SEA CATFISH | - | - | 6,700 | 333 | - | - | - | - |
| SEA TROUT OR WEAKFISH: | | | | | | | | |
| SPOTTED | - | - | - | - | - | - | 3,500 | 875 |
| WHITE | - | - | 69,100 | 3,456 | - | - | - | - |
| SHEEPSHEAD, SALT-WATER | - | - | 1,000 | 80 | - | - | - | - |
| SNAPPER, RED | - | - | 2,700 | 270 | - | - | - | - |
| SPANISH MACKEREL | - | - | - | - | - | - | 6,900 | 890 |
| SPOT | - | - | 300 | 18 | - | - | - | - |
| UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD | - | - | 76,857,900 | 1,306,584 | - | - | - | - |
| CRABS, BLUE: | | | | | | | | |
| HARD | - | - | - | - | 2,334,600 | \$133,092 | - | - |
| SOFT AND PEELER | - | - | - | - | 5,000 | 850 | - | - |
| SHRIMP | - | - | 4,407,500 | 1,281,160 | - | - | - | - |
| TOTAL | 301,270,800 | 3,404,351 | 81,653,600 | 2,614,030 | 2,339,600 | 133,942 | 20,400 | 2,565 |
| SPECIES | TRAMMEL NETS | | LINES | | | | CAST NETS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BLUEFISH | 9,500 | \$950 | - | - | - | - | - | - |
| CROAKER | 2,200 | 110 | - | - | - | - | - | - |

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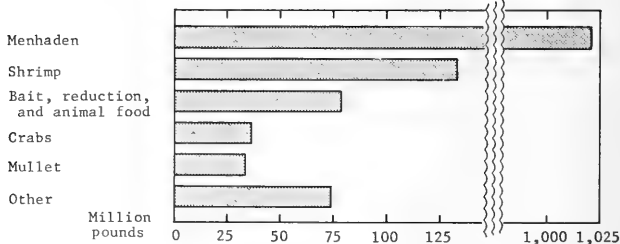
GULF FISHERIES

MISSISSIPPI - CATCH BY GEAR, 1961 - Continued

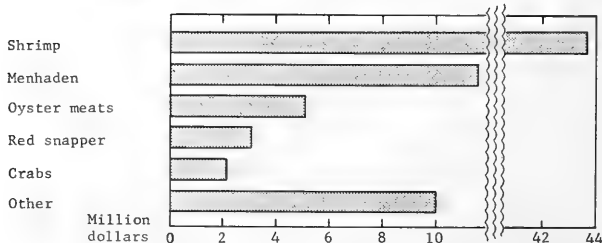
| SPECIES | TRAMMEL NETS | | LINES | | | | CAST NETS | |
|--|--------------|---------|-----------|---------|-----------------|---------|-----------|-------|
| | | | HAND | | TROT WITH BAITS | | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| DRUM: | | | | | | | | |
| BLACK | 21,800 | \$1,747 | - | - | - | - | - | - |
| RED | 50,400 | 7,549 | 1,900 | \$285 | - | - | - | - |
| GROUPERS | - | - | 135,400 | 16,248 | - | - | - | - |
| KING WHITING OR "KINGFISH" | 500 | 29 | - | - | - | - | - | - |
| MULLET, BLACK | 397,900 | 19,818 | - | - | - | - | 3,100 | \$155 |
| POMPANO | 900 | 360 | - | - | - | - | - | - |
| SEA CATFISH | 1,000 | 50 | - | - | - | - | - | - |
| SEA TROUT OR WEAKFISH, SPOTTED | 159,600 | 40,887 | 8,700 | 2,162 | - | - | - | - |
| SHEEPSHEAD, SALT-WATER | 44,700 | 3,577 | 600 | 48 | - | - | - | - |
| SNAPPER, RED | - | - | 2,149,000 | 537,250 | - | - | - | - |
| SPANISH MACKEREL | - | - | 500 | 47 | - | - | - | - |
| SPOT | 1,000 | 60 | - | - | - | - | - | - |
| TRIPLETAIL | 200 | 23 | - | - | - | - | - | - |
| CRABS, BLUE: | | | | | | | | |
| HARD | - | - | - | - | 170,300 | \$9,707 | - | - |
| SOFT AND PEELER | - | - | - | - | 2,000 | 340 | - | - |
| TOTAL | 689,100 | 75,160 | 2,296,100 | 556,040 | 172,300 | 10,047 | 3,100 | 155 |

| SPECIES | SPEARS | | DREDGES | | TONGS | |
|---------------------------|--------|-------|-----------|-----------|---------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| FLOUNDERS | 2,800 | \$337 | - | - | - | - |
| OYSTERS, MARKET: | | | | | | |
| PUBLIC: | | | | | | |
| SPRING | - | - | 1,418,200 | \$297,990 | 559,900 | \$124,874 |
| FALL | - | - | 281,900 | 84,570 | 254,400 | 82,415 |
| PRIVATE, SPRING | - | - | 726,700 | 162,607 | - | - |
| TOTAL | 2,800 | 337 | 2,426,800 | 545,167 | 814,300 | 207,289 |

GULF STATES CATCH, 1961



VALUE OF GULF STATES CATCH, 1961



GULF FISHERIES LOUISIANA

249

OPERATING UNITS BY GEAR, 1961

| ITEM | HAUL SEINES, COMMON | PURSE SEINES, MENHADEN | OTTER TRAWLS | | FYKE AND HOOP NETS, FISH |
|--------------------------|------------------------|---------------------------|---------------|---------------|--------------------------------|
| | | | FISH | SHRIMP | |
| FISHERMEN: | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| ON VESSELS | - | 812 | 12 | 2,613 | - |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | 54 | - | - | 2,668 | 290 |
| CASUAL | - | - | - | 503 | 205 |
| TOTAL | 54 | 812 | 12 | 5,784 | 495 |
| VESSLS, MOTOR | - | 39 | 4 | 962 | - |
| GROSS TONNAGE | - | 8,953 | 166 | 35,352 | - |
| BOATS: | | | | | |
| MOTOR | 13 | 78 | - | 1,920 | 491 |
| OTHER | 8 | - | - | - | - |
| GEAR: | | | | | |
| NUMBER | 13 | 39 | 8 | 3,663 | 14,546 |
| LENGTH, YARDS | 4,966 | 17,472 | - | - | - |
| YARDS AT MOUTH | - | - | 132 | 50,999 | - |

| ITEM | POTS AND TRAPS | | GILL NETS, ANCHOR, SET OR STAKE | TRAMMEL NETS | LINES |
|--------------------------|----------------|---------------|---------------------------------------|-----------------|---------------|
| | CRAB | CRAWFISH |  |  |  | HAND |
| FISHERMEN: | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| ON VESSELS | - | - | - | 8 | 130 |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | 5 | 72 | 63 | 121 | 166 |
| CASUAL | 7 | 40 | 8 | 35 | 103 |
| TOTAL | 12 | 112 | 71 | 164 | 399 |
| VESSLS, MOTOR | - | - | - | 4 | 30 |
| GROSS TONNAGE | - | - | - | 47 | 1,288 |
| BOATS: | | | | | |
| MOTOR | 12 | 109 | 59 | 100 | 249 |
| OTHER | - | - | - | 43 | - |
| GEAR: | | | | | |
| NUMBER | 300 | 6,620 | 59 | 104 | 11,622 |
| SQUARE YARDS | - | - | 38,704 | 23,848 | - |
| HOOKS OR BAITS | - | - | - | - | 12,199 |

| ITEM | LINES - CONTINUED | | DIP NETS | | SPEARS |
|-----------------------------------|------------------------------|-----------------------|---------------|---------------|---------------|
| | LONG OR SET WITH HOOKS | TROT WITH BAITS | COMMON | DROP | |
| FISHERMEN, ON BOATS AND SHORE: | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| REGULAR | 650 | 498 | 10 | 230 | 9 |
| CASUAL | 445 | 132 | 46 | 51 | - |
| TOTAL | 1,095 | 630 | 56 | 281 | 9 |
| BOATS: | | | | | |
| MOTOR | 1,091 | 621 | 56 | 277 | - |
| OTHER | 4 | - | - | - | - |
| GEAR: | | | | | |
| NUMBER | 1,446 | 634 | 56 | 20,559 | 9 |
| HOOKS OR BAITS | 526,327 | 382,650 | - | - | - |

| ITEM | DREDGES, OYSTER, COMMON | TONGS, OYSTER | BRUSH TRAPS | GRABS, FROG | BY HAND | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|--------------------------|-------------------------------|------------------|----------------|----------------|---------------|--|
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: | | | | | | |
| ON VESSELS | 319 | - | - | - | - | 3,787 |
| ON BOATS AND SHORE: | | | | | | |
| REGULAR | 322 | 233 | 141 | 31 | 46 | 3,540 |
| CASUAL | 57 | 12 | 18 | 5 | 9 | 1,090 |
| TOTAL | 696 | 245 | 159 | 36 | 55 | 6,417 |
| VESSLS, MOTOR | 133 | - | - | - | - | 1,131 |
| GROSS TONNAGE | 2,353 | - | - | - | - | 46,677 |
| BOATS: | | | | | | |
| MOTOR | 191 | 153 | 159 | 34 | 39 | 3,563 |
| OTHER | - | 12 | - | - | 4 | 60 |
| GEAR: | | | | | | |
| NUMBER | 513 | 245 | 52,300 | 36 | - | - |
| YARDS AT MOUTH | 749 | - | - | - | - | - |

GULF FISHERIES

LOUISIANA - CATCH BY GEAR, 1961

| SPECIES | HAUL SEINES | | PURSE SEINES | | OTTER TRAWLS | |
|--------------------------------------|-------------|--------|--------------|-------------|--------------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BOWFIN | 2,500 | \$87 | - | - | - | - |
| BUFFALOFISH | 22,000 | 2,613 | - | - | - | - |
| CABIO | - | - | - | - | 300 | \$14 |
| CATFISH AND BULLHEADS | 74,400 | 15,624 | - | - | - | - |
| CROAKER | 5,000 | 245 | - | - | 1,500 | 75 |
| DRUM: | - | - | - | - | - | - |
| BLACK | 45,700 | 2,286 | - | - | 3,000 | 150 |
| RED | 75,600 | 11,557 | - | - | 600 | 84 |
| FLOUNDERS | 2,200 | 305 | - | - | 207,300 | 27,619 |
| GARFISH | 42,700 | 2,977 | - | - | - | - |
| GROUPERS | - | - | - | - | 2,300 | 184 |
| JEWFISH | - | - | - | - | 1,500 | 74 |
| KING WHITING OR "KINGFISH" | 3,200 | 160 | - | - | 515,700 | 25,866 |
| MENHADEN | - | - | 581,682,400 | \$6,747,527 | - | - |
| MULLET, BLACK | 700 | 35 | - | - | - | - |
| POMPANO | - | - | - | - | 800 | 279 |
| SAWFISH | 1,400 | 68 | - | - | 2,800 | 140 |
| SEA CATFISH | 7,300 | 334 | - | - | 62,700 | 2,953 |
| SEA TROUT OR "WEAKFISH": | - | - | - | - | - | - |
| SPOTTED | 93,300 | 22,839 | - | - | 7,600 | 1,900 |
| WHITE | 4,300 | 267 | - | - | 59,900 | 3,341 |
| SHARKS, UNCLASSIFIED | 1,800 | 45 | - | - | 1,000 | 36 |
| SHEEPSHEAD: | - | - | - | - | - | - |
| FRESH-WATER | 20,700 | 2,074 | - | - | - | - |
| SALT-WATER | 19,500 | 1,515 | - | - | 19,000 | 1,485 |
| SNAPPER, RED | - | - | - | - | 250,200 | 35,736 |
| SPANISH MACKEREL | - | - | - | - | 1,700 | 163 |
| TRIPLETAIL | 300 | 15 | - | - | 500 | 22 |
| UNCLASSIFIED, FOR BAIT, | - | - | - | - | 582,000 | 7,275 |
| REDUCTION, AND ANIMAL FOOD | - | - | - | - | 903,900 | 44,229 |
| CRABS, BLUE, HARD | - | - | - | - | 31,027,000 | 8,912,840 |
| SHRIMP | - | - | - | - | 2,100 | 106 |
| SQUID | - | - | - | - | 6,300 | 613 |
| TURTLES, GREEN | - | - | - | - | - | - |
| TOTAL | 422,600 | 63,046 | 581,682,400 | 6,747,527 | 33,659,700 | 9,065,584 |

| SPECIES | FYKE AND HOOP NETS | | POTS AND TRAPS | | GILL NETS, ANCHOR, SET OR STAKE | |
|-----------------------------------|--------------------|---------|----------------|---------|------------------------------------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BOWFIN | 3,300 | \$127 | - | - | 900 | \$52 |
| BUFFALOFISH | 407,000 | 47,609 | - | - | 236,100 | 26,341 |
| CARP | 15,200 | 760 | - | - | - | - |
| CATFISH AND BULLHEADS | 1,562,100 | 323,774 | - | - | 423,600 | 89,470 |
| DRUM: | - | - | - | - | - | - |
| BLACK | - | - | - | - | 11,200 | 1,110 |
| RED | 3,000 | 420 | - | - | 1,700 | 238 |
| GARFISH | 3,400 | 201 | - | - | 191,300 | 10,229 |
| PADDLEFISH | - | - | - | - | 2,700 | 270 |
| SHEEPSHEAD, FRESH-WATER | 395,500 | 39,570 | - | - | 60,500 | 5,094 |
| CRABS, BLUE, HARD | - | - | 38,400 | \$1,920 | - | - |
| CRAWFISH, FRESH-WATER | - | - | 1,003,100 | 145,802 | - | - |
| TURTLES, SNAPPER | 5,700 | 851 | - | - | - | - |
| TOTAL | 2,395,200 | 413,512 | 1,041,500 | 147,722 | 926,200 | 133,804 |

| SPECIES | TRAMMEL NETS | | LINES | | | |
|--------------------------------------|--------------|--------|--------|-------|---------------------------|---------|
| | | | HAND | | LONG OR SET WITH HOOKS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BOWFIN | - | - | - | - | 300 | \$11 |
| BUFFALOFISH | 3,600 | \$450 | - | - | 2,800 | 336 |
| CABIO | - | - | 3,500 | \$175 | - | - |
| CATFISH AND BULLHEADS | 7,800 | 1,637 | 25,600 | 5,376 | 4,318,200 | 879,564 |
| CROAKER | 11,400 | 565 | - | - | - | - |
| DRUM: | - | - | - | - | - | - |
| BLACK | 316,200 | 15,913 | 11,500 | 653 | - | - |
| RED | 573,500 | 82,869 | 11,600 | 2,340 | - | - |
| FLOUNDERS | 9,500 | 1,360 | - | - | - | - |
| GARFISH | 10,700 | 542 | 6,500 | 250 | 10,100 | 505 |
| GROUPERS | - | - | 13,500 | 1,580 | - | - |
| JEWFISH | - | - | 8,000 | 803 | - | - |
| KING WHITING OR "KINGFISH" | 12,300 | 615 | - | - | - | - |
| MULLET, BLACK | 11,200 | 429 | - | - | - | - |
| PADDLEFISH | - | - | - | - | 4,500 | 450 |
| SAWFISH | 1,700 | 87 | - | - | - | - |
| SEA CATFISH | 14,700 | 686 | - | - | - | - |

(CONTINUED ON NEXT PAGE)

GULF FISHERIES

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LOUISIANA - CATCH BY GEAR, 1961 - Continued

| SPECIES | TRAMMEL NETS | | LINES | | | |
|--------------------------------|--------------|----------|---------|---------|------------------------|---------|
| | | | HAND | | LONG OR SET WITH HOOKS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| SEA TROUT OR WEAKFISH: | | | | | | |
| SPOTTED | 408,500 | \$91,279 | 27,700 | \$6,925 | - | - |
| WHITE | 15,100 | 807 | 2,400 | 120 | - | - |
| SHARKS, UNCLASSIFIED | 600 | 24 | - | - | - | - |
| SHEEPSHEAD: | | | | | | |
| FRESH-WATER | 9,400 | 763 | - | - | 55,300 | \$5,313 |
| SALT-WATER | 100,700 | 6,244 | 5,400 | 279 | - | - |
| SNAPPER, RED | - | - | 427,000 | 113,876 | - | - |
| SPOT | 2,900 | 145 | - | - | - | - |
| TRIPLETAIL | 100 | 5 | - | - | - | - |
| TURTLES, SNAPPER | - | - | 7,300 | 926 | 1,600 | 180 |
| TOTAL | 1,510,300 | 204,420 | 550,000 | 133,303 | 4,393,000 | 686,359 |

| SPECIES | LINES - CONTINUED | | DIP NETS | | SPEARS | | DREDGES | |
|---------------------------------|-------------------|-----------|-----------|-----------|--------|-------|-----------|-----------|
| | TROT WITH BAITS | | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| | POUNDS | VALUE | | | | | | |
| FLOUNDERS | - | - | - | - | 2,000 | \$360 | - | - |
| CRABS, BLUE: | | | | | | | | |
| HARD | 8,613,200 | \$356,226 | 2,354,400 | \$111,813 | - | - | - | - |
| SOFT AND PEELER | 68,400 | 34,200 | 278,100 | 139,100 | - | - | - | - |
| CRAWFISH, FRESH-WATER | - | - | 15,500 | 2,325 | - | - | - | - |
| OYSTERS, MARKET: | | | | | | | | |
| PUBLIC: | | | | | | | | |
| SPRING | - | - | - | - | - | - | 1,094,600 | \$321,905 |
| FALL | - | - | - | - | - | - | 52,900 | 21,660 |
| PRIVATE: | | | | | | | | |
| SPRING | - | - | - | - | - | - | 7,282,500 | 1,814,680 |
| FALL | - | - | - | - | - | - | 1,278,100 | 529,613 |
| TURTLES, BABY | - | - | 600 | 4,500 | - | - | - | - |
| TOTAL | 8,681,600 | 390,426 | 2,648,600 | 257,738 | 2,000 | 360 | 9,708,100 | 2,687,858 |

| SPECIES | TONGS | | BRUSH TRAPS | | GRABS | | BY HAND | |
|--|---------|----------|-------------|-----------|--------|---------|---------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| CRABS, BLUE, SOFT AND PEELER | - | - | 273,800 | \$136,900 | - | - | - | - |
| OYSTERS, MARKET: | | | | | | | | |
| PUBLIC: | | | | | | | | |
| SPRING | 79,700 | \$28,920 | - | - | - | - | 8,500 | \$3,351 |
| FALL | 63,600 | 26,300 | - | - | - | - | - | - |
| PRIVATE: | | | | | | | | |
| SPRING | 166,800 | 56,128 | - | - | - | - | 500 | 135 |
| FALL | 112,000 | 46,398 | - | - | - | - | - | - |
| FROGS | - | - | - | - | 5,400 | \$1,765 | - | - |
| TOTAL | 422,100 | 157,746 | 273,800 | 136,900 | 5,400 | 1,765 | 9,000 | 3,486 |



MEDIUM SHRIMP TRAWLER.

GULF FISHERIES TEXAS

OPERATING UNITS BY GEAR, 1961

| ITEM | HAUL SEINES, COMMON | PURSE SEINES, MENHADEN | OTTER TRAWLS, SHRIMP | FYKE AND HOOP NETS, FISH | POTS, CRAB | GILL NETS, ANCHOR, SET OR STAKE | TRAMMEL NETS |
|--------------------------------|------------------------|---------------------------|-------------------------|-----------------------------|---------------|------------------------------------|--------------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | | |
| ON VESSELS | - | 293 | 4,268 | - | - | - | - |
| ON BOATS AND SHORE: | | | | | | | |
| REGULAR | 63 | - | 573 | 3 | 76 | 104 | 96 |
| CASUAL | 7 | - | 75 | - | - | 8 | 3 |
| TOTAL | 70 | 293 | 4,916 | 3 | 76 | 112 | 99 |
| VESSELS, MOTOR. | - | 14 | 1,541 | - | - | - | - |
| GROSS TONNAGE | - | 2,257 | 79,044 | - | - | - | - |
| BOATS: | | | | | | | |
| MOTOR | 27 | 28 | 429 | 3 | 66 | 82 | 53 |
| OTHER | - | 14 | - | - | - | - | 14 |
| GEAR: | | | | | | | |
| NUMBER | 32 | 14 | 3,431 | 15 | 7,200 | 82 | 53 |
| LENGTH, YARDS | 7,600 | 6,650 | - | - | - | - | - |
| SQUARE YARDS | - | - | - | - | - | 53,370 | 37,841 |
| YARDS AT MOUTH | - | - | 50,591 | - | - | - | - |

| ITEM | LINES | | SPEARS | DREDGES, OYSTER, COMMON | TONGS, OYSTER | BY HAND, OYSTER | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|--------------------------------|--------|------------------------------|--------|-------------------------------|------------------|-----------------------|--|
| | HAND | LONG OR SET WITH HOOKS | | | | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | | |
| ON VESSELS | 522 | - | - | 76 | - | - | 4,776 |
| ON BOATS AND SHORE: | | | | | | | |
| REGULAR | 20 | 130 | 56 | 247 | 36 | - | 849 |
| CASUAL | 106 | 14 | 25 | 8 | - | 3 | 220 |
| TOTAL | 648 | 144 | 81 | 331 | 36 | 3 | 5,845 |
| VESSELS, MOTOR. | | | | | | | |
| GROSS TONNAGE | | | | | | | |
| VESSELS | 151 | - | - | 35 | - | - | 1,594 |
| BOATS | 7,510 | - | - | 535 | - | - | 82,308 |
| BOATS: | | | | | | | |
| MOTOR | 123 | 144 | - | 124 | 31 | 3 | 791 |
| OTHER | - | - | - | - | - | - | 28 |
| GEAR: | | | | | | | |
| NUMBER | 646 | 162 | 81 | 159 | 36 | - | - |
| HOOKS | 1,741 | 336,300 | - | - | - | - | - |
| YARDS AT MOUTH | - | - | - | 159 | - | - | - |

TEXAS - CATCH BY GEAR, 1961

| SPECIES | HAUL SEINES | | PURSE SEINES | | OTTER TRAWLS | |
|--|-------------|---------|--------------|-------------|--------------|--------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BUFFALOFISH | 31,000 | \$3,100 | - | - | - | - |
| CATFISH AND BULLHEADS | 40,200 | 11,256 | - | - | - | - |
| CROAKER | - | - | - | - | 6,400 | \$405 |
| DRUM: | | | | | | |
| BLACK | 82,500 | 7,290 | - | - | 17,300 | 861 |
| RED | 16,900 | 4,106 | - | - | 1,300 | 228 |
| FLOUNDERS, UNCLASSIFIED | 3,600 | 900 | - | - | 75,700 | 19,349 |
| GROUPERS | - | - | - | - | 2,200 | 215 |
| KING MACKEREL | 300 | 28 | - | - | - | - |
| KING WHITING OR "KINGFISH" | - | - | - | - | 42,200 | 2,459 |
| MENHADEN | - | - | 134,105,200 | \$1,406,105 | - | - |
| MULLET, SILVER | 1,300 | 49 | - | - | 500 | 15 |
| POMPANO | 3,300 | 1,135 | - | - | - | - |
| SEA CATFISH | 100 | 10 | - | - | 15,000 | 1,316 |
| SEA TROUT OR WEAKFISH, SPOTTED | 136,400 | 31,819 | - | - | - | - |
| SHEEPSHEAD, SALT-WATER | 1,100 | 57 | - | - | 20,700 | 1,032 |
| SNAPPER, RED | - | - | - | - | 29,600 | 7,150 |

(CONTINUED ON NEXT PAGE)

GULF FISHERIES

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TEXAS - CATCH BY GEAR, 1961 - Continued

| SPECIES | HAUL SEINES | | PURSE SEINES | | OTTER TRAWLS | |
|---|-------------|--------|--------------|-------------|--------------|------------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| UNCLASSIFIED: FOR FOOD, BAIT, REDUCTION, AND ANIMAL FOOD | 2,900 | \$146 | - | - | 101,600 | \$5,079 |
| CRABS, BLUE, HARD | - | - | - | - | 261,000 | 7,830 |
| SHRIMP | - | - | - | - | 130,900 | 7,368 |
| SQUID | - | - | - | - | 58,765,900 | 21,208,428 |
| | - | - | - | - | 11,600 | 1,128 |
| TOTAL | 321,600 | 59,896 | 134,105,200 | \$1,408,105 | 59,482,100 | 21,262,863 |

| SPECIES | FYKE AND HOOP NETS | | POTS AND TRAPS | | GILL NETS, ANCHOR, SET OR STAKE | |
|-----------------------------------|--------------------|---------|----------------|-----------|------------------------------------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BUFFALOFISH | 13,000 | \$1,300 | - | - | 47,000 | \$4,700 |
| CROAKER | - | - | - | - | 2,600 | 260 |
| DRUM: | | | | | | |
| BLACK | - | - | - | - | 939,400 | 75,223 |
| RED | - | - | - | - | 101,200 | 22,264 |
| FLOWNERS, UNCLASSIFIED | - | - | - | - | 400 | 100 |
| GARFISH | - | - | - | - | 52,500 | 2,100 |
| SEA CATFISH | - | - | - | - | 2,000 | 200 |
| SEA TROUT OR WEAKFISH, SPOTTED | - | - | - | - | 194,900 | 46,927 |
| SHEEPSHEAD, SALT-WATER | - | - | - | - | 200 | 10 |
| CRABS, BLUE: | | | | | | |
| HARD | - | - | 2,743,700 | \$170,342 | - | - |
| SOFT AND PEELER | - | - | 2,400 | 720 | - | - |
| TOTAL | 13,000 | 1,300 | 2,746,100 | 171,062 | 1,340,200 | 151,784 |

| SPECIES | TRAMMEL NETS | | LINES | | | |
|---|--------------|---------|-----------|---------|---------------------------|----------|
| | | | HAND | | LONG OR SET WITH HOOKS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| CABIO | - | - | 8,600 | \$760 | - | - |
| CATFISH AND BULLHEADS | - | - | - | - | 35,800 | \$11,088 |
| CROAKER | 800 | \$24 | - | - | 8,400 | 672 |
| DRUM: | | | | | | |
| BLACK | 112,800 | 10,152 | 7,700 | 622 | 475,300 | 39,361 |
| RED | 118,200 | 26,478 | 16,500 | 3,694 | 361,400 | 85,148 |
| FLOWNERS, UNCLASSIFIED | 1,300 | 325 | 3,300 | 825 | 2,800 | 700 |
| GROUPERS | - | - | 53,900 | 5,287 | - | - |
| MULLET, SILVER | 83,900 | 2,517 | - | - | - | - |
| POMPANO | - | - | - | - | 1,300 | 455 |
| SEA CATFISH | 9,700 | 970 | 1,300 | 130 | 1,900 | 184 |
| SEA TROUT OR WEAKFISH, SPOTTED | 355,400 | 86,307 | 40,500 | 9,808 | 389,700 | 102,783 |
| SHEEPSHEAD: | | | | | | |
| FRESH-WATER | - | - | - | - | 800 | 85 |
| SALT-WATER | 29,300 | 1,462 | 2,000 | 110 | 300 | 15 |
| SNAPPER, RED | - | - | 1,799,100 | 447,973 | - | - |
| SPANISH MACKEREL | - | - | 100 | 10 | - | - |
| WARSAW | - | - | 35,000 | 3,537 | - | - |
| UNCLASSIFIED: FOR FOOD, BAIT, REDUCTION, AND ANIMAL FOOD | 3,800 | 190 | 500 | 25 | 700 | 35 |
| TOTAL | 835,200 | 132,045 | 1,968,500 | 472,801 | 1,278,400 | 240,526 |

| SPECIES | SPEARS | | DREDGES | | TONGS | | BY HAND | |
|------------------------|--------|----------|-----------|-----------|--------|----------|---------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| FLOWNERS, UNCLASSIFIED | 66,400 | \$16,588 | - | - | - | - | - | - |
| OYSTERS, MARKET: | | | | | | | | |
| PUBLIC: | | | | | | | | |
| SPRING | - | - | 731,600 | \$206,764 | 73,200 | \$20,409 | 4,000 | \$1,800 |
| FALL | - | - | 193,700 | 70,411 | 16,900 | 5,841 | 1,200 | 540 |
| PRIVATE: | | | | | | | | |
| SPRING | - | - | 66,000 | 20,623 | - | - | - | - |
| FALL | - | - | 7,200 | 2,932 | - | - | - | - |
| TOTAL | 66,400 | 16,588 | 1,000,500 | 300,730 | 90,100 | 26,250 | 5,200 | 2,340 |

GULF FISHERIES

GULF SHRIMP FISHERY

Detailed statistics on landings of shrimp by United States craft at Gulf of Mexico ports were collected during 1961 for the sixth consecutive year. The data, summarized on a monthly basis in the following tabulations, include information on species by size; volume and value landed in each State; the number of fishing trips; days fished; and the catch by area, depth, and size of shrimp. Catch figures represent the heads-off weight and, therefore, are not directly comparable with the heads-on (live weight) quantities published in the General Review regional tables, or the Review of Certain Major Fisheries. The pounds of heads-off shrimp may be converted to a heads-on weight by multiplying by 1.68.

Landings at Gulf of Mexico ports during 1961 totaled nearly 80 million pounds (heads-off)--a decrease of 43 million pounds from 1960 and the lowest since 1949. The dockside value of \$43.6 million was a decrease of \$14 million compared with 1960. As a result of reduced production, ex-vessel prices were at a considerably higher level than the previous year; and although the volume decreased 35 percent, the dockside value declined only 24 percent.

Brown shrimp (*Penaeus aztecus*) predominated the landings, accounting for 49 percent of the total; pink (*Penaeus duorarum*) 30; white (*Penaeus setiferus*) 18; and seabobs, (*Xiphopenaeus kroyeri*) 3 percent. Compared with the species composition of the 1960 landings, brown shrimp decreased 27 million pounds; white, 14 million; and pink, 2 million. There was little change in the size composition of landings compared with 1960. Shrimp with a count of up to 25 per pound, heads-off, accounted for 30 percent of the landings; 26-30 count, 14; 31-40 count, 25; and 41-and-over count, 31 percent.

Declines occurred in the catches in all areas from Pensacola, Florida, to the Mexican border, and also on the Sanibel-Tortugas grounds. The greatest decrease was in the Pensacola to Mississippi River area, where catches were 55 percent below those of 1960; Mississippi River to Texas border production declined 51 percent; waters off the Texas Coast, 45 percent; and the Sanibel-Tortugas grounds, 24 percent. The waters off the northwest Florida coast, Campeche Bank, and the high seas off the Mexican Coast west of 94° were the only areas in which catches exceeded those of the previous year. In the high seas fishery off Mexico west of 94° longitude, fishing effort increased 47 percent over 1960, yet the catch was up 120 percent. In the Apalachicola area (Northwest Florida), fishing effort increased 30 percent, but catches were up only 2 percent. Fishing effort on the Campeche Bank increased 2 percent and resulted in a 1-percent increase in catches over those for 1960.

Information on the landings and catch of shrimp in the Gulf area, contained in the following tables, has been previously published in Current Fishery Statistics No. 2957. Monthly data on the landings and value of shrimp by variety and size for the South Atlantic States are included in Section 5 of this Digest.

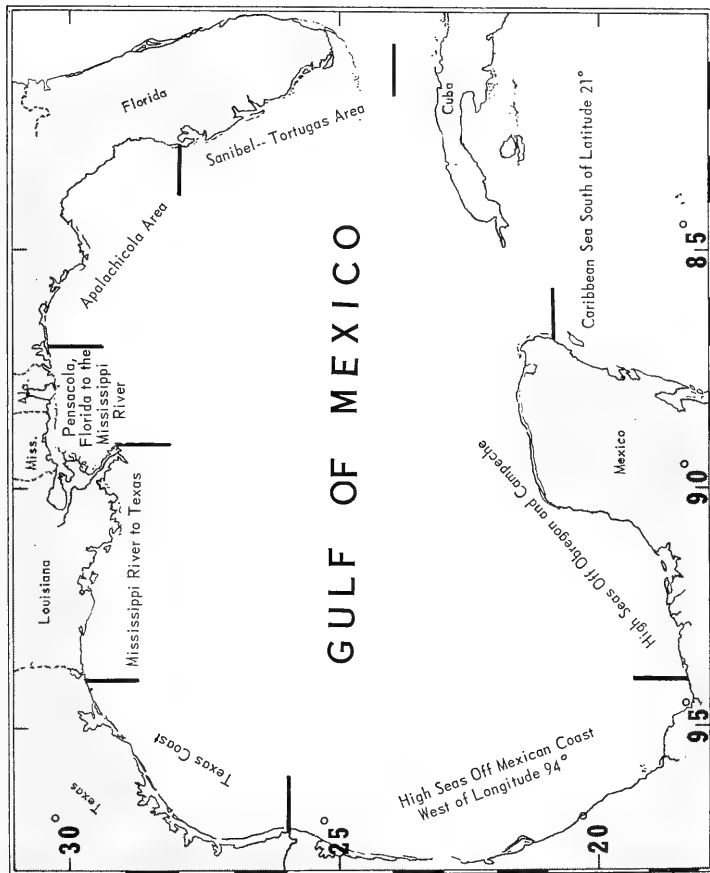
SUMMARY OF SHRIMP LANDINGS, 1961

| SIZE | BROWN | | PINK | | WHITE | | TOTAL | |
|-----------------|------------|-------------|------------|------------|------------|-----------|------------|-------------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| UNDER 15 . . . | 2,034,333 | \$1,518,047 | 58,176 | \$46,075 | 92,543 | \$68,590 | 2,185,052 | \$1,632,712 |
| 15 - 20 . . . | 5,525,149 | 3,988,943 | 1,122,518 | 820,213 | 1,861,239 | 1,376,140 | 8,508,906 | 6,185,296 |
| 21 - 25 . . . | 4,962,651 | 3,385,325 | 5,172,729 | 3,357,975 | 2,480,361 | 1,843,170 | 12,615,741 | 8,586,470 |
| 26 - 30 . . . | 4,611,135 | 2,937,324 | 4,591,029 | 2,787,978 | 1,589,400 | 1,101,096 | 10,791,554 | 6,628,398 |
| 31 - 40 . . . | 10,349,100 | 5,593,725 | 6,245,155 | 3,447,542 | 2,575,654 | 1,562,453 | 19,166,919 | 10,603,720 |
| 41 - 50 . . . | 3,982,904 | 1,613,925 | 2,376,415 | 1,152,914 | 1,587,241 | 835,288 | 8,148,560 | 3,602,127 |
| 51 - 67 . . . | 2,820,021 | 1,074,857 | 1,629,512 | 657,078 | 2,245,178 | 1,022,661 | 6,697,711 | 2,754,596 |
| 68 AND OVER . . | 4,867,937 | 1,467,653 | 2,488,141 | 634,284 | 2,013,846 | 736,951 | 9,369,924 | 2,838,888 |
| TOTAL . . . | 39,153,230 | 21,779,799 | 24,082,675 | 12,904,059 | 14,448,472 | 6,546,349 | 77,684,377 | 43,230,207 |

NOTE:--THIS TABLE DOES NOT INCLUDE DATA ON 1,955,156 POUNDS OF SEA BOBS, VALUED AT \$419,510.

GULF FISHERIES

Chart depicting the major statistical areas used in reporting the shrimp catch by fishing craft on trips completed during 1961.



GULF FISHERIES

FLORIDA, WEST COAST SHRIMP LANDINGS, BY MONTHS, 1961

| SPECIES AND SIZE | JANUARY | | FEBRUARY | | MARCH | |
|---------------------------|-----------|-----------|-----------|---------|-----------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BROWN: | | | | | | |
| 15 - 20 | 2,376 | \$1,385 | 5,303 | \$3,128 | 12,583 | \$7,986 |
| 21 - 25 | 280 | 150 | 400 | 215 | 1,400 | 832 |
| 26 - 30 | - | - | - | - | 310 | 164 |
| TOTAL | 2,656 | 1,535 | 5,703 | 3,343 | 14,293 | 8,984 |
| PINK: | | | | | | |
| 15 - 20 | 110,754 | 66,916 | 123,764 | 77,868 | 110,114 | 73,393 |
| 21 - 25 | 1,018,102 | 570,654 | 604,270 | 345,940 | 570,672 | 349,858 |
| 26 - 30 | 620,449 | 312,303 | 407,247 | 214,047 | 405,759 | 226,746 |
| 31 - 40 | 431,806 | 187,087 | 324,957 | 150,900 | 536,667 | 273,716 |
| 41 - 50 | 318,968 | 113,306 | 218,467 | 87,715 | 295,177 | 129,342 |
| 51 - 67 | 170,479 | 47,781 | 128,774 | 38,770 | 220,901 | 76,204 |
| 68 AND OVER | 33,411 | 7,079 | 118,670 | 27,608 | 513,210 | 127,230 |
| TOTAL | 2,703,969 | 1,305,126 | 1,924,149 | 942,848 | 2,652,700 | 1,258,489 |
| WHITE: | | | | | | |
| 15 - 20 | 620 | 498 | 400 | 257 | - | - |
| 21 - 25 | 11,536 | 6,478 | 1,690 | 971 | 1,299 | 777 |
| 26 - 30 | 20,695 | 12,729 | 3,272 | 2,130 | 2,243 | 1,437 |
| 31 - 40 | 19,836 | 11,361 | 1,598 | 963 | 147 | 90 |
| 41 - 50 | 9,803 | 5,421 | 1,557 | 922 | 445 | 260 |
| 51 - 67 | 5,340 | 2,281 | 917 | 409 | 1,914 | 957 |
| 68 AND OVER | 3,495 | 1,126 | 2,247 | 765 | 100 | 42 |
| TOTAL | 71,525 | 39,894 | 11,681 | 6,417 | 6,148 | 3,563 |
| SEA BOBS | 3,515 | 438 | 75 | 11 | - | - |
| TOTAL, 1961 | 2,781,665 | 1,346,993 | 1,941,608 | 952,619 | 2,673,141 | 1,271,036 |
| TOTAL, 1960 | 2,463,477 | 1,051,832 | 2,129,666 | 969,299 | 2,261,077 | 1,019,557 |

| SPECIES AND SIZE | APRIL | | MAY | | JUNE | |
|---------------------------|-----------|-----------|-----------|-----------|-----------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BROWN: | | | | | | |
| 15 - 20 | 3,302 | \$2,143 | 3,517 | \$2,095 | 1,708 | \$1,025 |
| 21 - 25 | 3,460 | 1,996 | - | - | - | - |
| 26 - 30 | 3,117 | 1,687 | - | - | 3,518 | 1,732 |
| 31 - 40 | 5,495 | 2,590 | 5,703 | 2,327 | 7,919 | 3,511 |
| 41 - 50 | - | - | - | - | 4,254 | 1,756 |
| 51 - 67 | - | - | - | - | 56,394 | 21,156 |
| 68 AND OVER | - | - | 3,285 | 979 | 5,737 | 1,949 |
| TOTAL | 15,374 | 8,416 | 12,505 | 5,401 | 79,530 | 31,129 |
| PINK: | | | | | | |
| UNDER 15 | 15 | 11 | - | - | - | - |
| 15 - 20 | 26,705 | 16,867 | 22,315 | 13,684 | 10,567 | 6,587 |
| 21 - 25 | 197,657 | 119,697 | 237,466 | 136,091 | 115,093 | 65,662 |
| 26 - 30 | 312,088 | 173,146 | 260,287 | 145,718 | 210,047 | 108,962 |
| 31 - 40 | 441,424 | 219,322 | 500,783 | 229,404 | 420,366 | 194,199 |
| 41 - 50 | 268,476 | 122,604 | 215,965 | 84,620 | 146,538 | 56,330 |
| 51 - 67 | 259,735 | 89,875 | 213,542 | 74,345 | 115,675 | 36,676 |
| 68 AND OVER | 260,117 | 58,761 | 204,597 | 43,801 | 45,918 | 10,559 |
| TOTAL | 1,806,217 | 802,303 | 1,674,955 | 727,863 | 1,064,204 | 480,975 |
| WHITE: | | | | | | |
| 15 - 20 | - | - | 229 | 153 | 221 | 137 |
| 21 - 25 | - | - | 1,068 | 696 | 2,704 | 1,713 |
| 26 - 30 | 500 | 279 | 2,075 | 1,210 | 1,547 | 903 |
| 31 - 40 | 900 | 465 | 215 | 101 | 2,295 | 965 |
| TOTAL | 1,400 | 744 | 3,587 | 2,160 | 6,767 | 3,718 |
| SEA BOBS | - | - | - | - | 1,796 | 269 |
| TOTAL, 1961 | 1,624,991 | 811,463 | 1,691,047 | 735,424 | 1,152,297 | 516,091 |
| TOTAL, 1960 | 2,329,714 | 1,107,265 | 2,102,661 | 1,083,877 | 1,505,923 | 827,510 |

SEE NOTE ON PAGE 265.

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GULF FISHERIES

257

FLORIDA, WEST COAST SHRIMP LANDINGS, BY MONTHS, 1961 - Continued

| SPECIES AND SIZE | JULY | | AUGUST | | SEPTEMBER | |
|------------------------------|------------------|----------------|----------------|----------------|------------------|----------------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BROWN: | | | | | | |
| 15 - 20 | - | - | - | - | 1,500 | \$1,200 |
| 21 - 25 | 2,165 | \$1,255 | 694 | \$417 | 6,289 | 4,716 |
| 26 - 30 | 17,941 | 9,675 | 8,050 | 5,161 | 70 | 42 |
| 31 - 40 | 19,378 | 9,680 | 206 | 104 | 665 | 429 |
| 41 - 50 | 8,118 | 3,632 | 160 | 85 | - | - |
| 51 - 67 | 19,167 | 7,019 | 19,340 | 8,279 | 11,574 | 5,785 |
| 68 AND OVER | 41,190 | 14,456 | 9,053 | 3,164 | - | - |
| TOTAL | 107,959 | 45,717 | 37,513 | 17,210 | 20,098 | 12,172 |
| PINK: | | | | | | |
| 15 - 20 | 1,370 | 897 | 5,420 | 4,462 | 10,672 | 8,695 |
| 21 - 25 | 80,443 | 48,339 | 255,378 | 195,043 | 60,768 | 47,180 |
| 26 - 30 | 225,890 | 124,659 | 227,604 | 154,224 | 213,828 | 158,071 |
| 31 - 40 | 356,362 | 178,192 | 206,188 | 121,758 | 473,029 | 318,489 |
| 41 - 50 | 60,466 | 24,904 | 61,528 | 28,429 | 52,512 | 27,076 |
| 51 - 67 | 49,513 | 15,995 | 50,905 | 21,661 | 60,527 | 24,961 |
| 68 AND OVER | 103,490 | 21,219 | 112,753 | 35,234 | 313,846 | 79,937 |
| TOTAL | 877,534 | 414,205 | 919,776 | 560,811 | 1,185,182 | 664,409 |
| WHITE: | | | | | | |
| UNDER 15 | - | - | - | - | 49 | 32 |
| 15 - 20 | - | - | - | - | 953 | 609 |
| 21 - 25 | 133 | 81 | - | - | 41 | 24 |
| 26 - 30 | - | - | - | - | 2,110 | 1,249 |
| 31 - 40 | - | - | - | - | 392 | 210 |
| 41 - 50 | - | - | 42 | 21 | 4,553 | 2,396 |
| 51 - 67 | - | - | - | - | 24,204 | 11,145 |
| 68 AND OVER | - | - | 366 | 134 | 45,501 | 15,683 |
| TOTAL | 133 | 81 | 408 | 155 | 77,803 | 31,348 |
| SEA BOBS | 425 | 85 | - | - | 56,675 | 9,443 |
| TOTAL, 1961 | 986,051 | 460,088 | 957,697 | 578,176 | 1,339,758 | 717,372 |
| TOTAL, 1960 | 1,275,658 | 640,258 | 892,953 | 412,306 | 1,321,991 | 556,719 |

| SPECIES AND SIZE | OCTOBER | | NOVEMBER | | DECEMBER | | TOTAL | |
|------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BROWN: | | | | | | | | |
| 15 - 20 | - | - | 355 | \$296 | - | - | 30,644 | \$19,260 |
| 21 - 25 | - | - | - | - | - | - | 14,688 | 9,561 |
| 26 - 30 | 930 | \$649 | 6,275 | 4,139 | - | - | 40,221 | 23,249 |
| 31 - 40 | 3,732 | 2,366 | 749 | 484 | - | - | 43,847 | 21,487 |
| 41 - 50 | 85 | 42 | 126 | 67 | - | - | 12,743 | 5,582 |
| 51 - 67 | 123 | 61 | - | - | - | - | 106,598 | 42,300 |
| 68 AND OVER | - | - | - | - | - | - | 59,265 | 20,548 |
| TOTAL | 4,870 | 3,114 | 7,505 | 4,966 | - | - | 308,006 | 142,007 |
| PINK: | | | | | | | | |
| UNDER 15 | - | - | - | - | - | - | 15 | 11 |
| 15 - 20 | 9,370 | 7,305 | 49,652 | 41,256 | 243,148 | \$204,507 | 725,851 | 524,637 |
| 21 - 25 | 208,859 | 155,710 | 429,468 | 336,647 | 431,915 | 340,332 | 4,210,291 | 2,711,153 |
| 26 - 30 | 424,316 | 292,288 | 356,937 | 261,800 | 224,099 | 164,785 | 3,908,551 | 2,388,749 |
| 31 - 40 | 690,630 | 433,991 | 389,142 | 249,350 | 448,883 | 296,252 | 5,220,237 | 2,852,360 |
| 41 - 50 | 183,389 | 92,984 | 266,281 | 140,479 | 133,784 | 74,501 | 2,241,551 | 984,290 |
| 51 - 67 | 106,577 | 38,232 | 219,470 | 91,977 | 64,488 | 29,476 | 1,658,586 | 585,953 |
| 68 AND OVER | 240,816 | 60,968 | 347,361 | 104,020 | 117,968 | 37,947 | 2,432,157 | 614,383 |
| TOTAL | 1,863,957 | 1,081,178 | 2,058,311 | 1,225,529 | 1,664,285 | 1,147,800 | 20,397,239 | 10,611,536 |
| WHITE: | | | | | | | | |
| UNDER 15 | - | - | - | - | - | - | 49 | 32 |
| 15 - 20 | 503 | 377 | 1,725 | 1,465 | 1,851 | 1,572 | 6,702 | 5,068 |
| 21 - 25 | 1,723 | 1,290 | 43,149 | 34,314 | 16,761 | 13,269 | 80,104 | 59,613 |
| 26 - 30 | 3,902 | 2,699 | 38,198 | 28,032 | 11,181 | 8,073 | 85,723 | 58,741 |
| 31 - 40 | 16,453 | 9,931 | 24,541 | 15,358 | 7,880 | 5,126 | 74,257 | 44,572 |
| 41 - 50 | 13,882 | 7,494 | 5,661 | 2,990 | 2,718 | 1,459 | 38,661 | 20,963 |
| 51 - 67 | 18,616 | 9,195 | 7,329 | 3,652 | 4,325 | 2,210 | 62,645 | 29,850 |
| 68 AND OVER | 168,163 | 58,202 | 60,262 | 20,824 | 11,050 | 4,001 | 291,184 | 100,777 |
| TOTAL | 223,242 | 89,169 | 180,865 | 106,635 | 55,766 | 35,712 | 639,325 | 319,616 |
| SEA BOBS | 47,906 | 7,949 | 12,694 | 2,114 | 1,761 | 283 | 124,847 | 20,592 |
| TOTAL, 1961 | 2,139,975 | 1,181,430 | 2,259,375 | 1,339,264 | 1,721,812 | 1,183,795 | 21,469,417 | 11,093,751 |
| TOTAL, 1960 | 4,682,871 | 1,911,479 | 3,435,648 | 1,597,468 | 2,045,059 | 977,383 | 26,466,700 | 12,154,953 |

SEE NOTE ON PAGE 265.

GULF FISHERIES

ALABAMA SHRIMP LANDINGS, BY MONTHS, 1961

| SPECIES AND SIZE | JANUARY | | FEBRUARY | | MARCH | |
|-----------------------|---------|---------|----------|---------|---------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BROWN: | | | | | | |
| UNDER 15 | 2,985 | \$1,824 | 1,606 | \$1,092 | 672 | \$593 |
| 15 - 20 | 11,269 | 7,073 | 55,158 | 35,338 | 32,558 | 20,956 |
| 21 - 25 | 17,667 | 10,123 | 5,767 | 3,425 | 223 | 136 |
| 26 - 30 | 3,148 | 1,645 | 407 | 220 | 65 | 35 |
| 31 - 40 | 495 | 234 | 2,730 | 1,412 | - | - |
| 41 - 50 | 501 | 206 | 105 | 43 | - | - |
| 51 - 67 | 60 | 24 | - | - | - | - |
| 68 AND OVER | 60 | 21 | - | - | - | - |
| TOTAL | 36,185 | 21,150 | 65,772 | 41,530 | 33,718 | 21,720 |
| PINK: | | | | | | |
| 15 - 20 | - | - | - | - | 63 | 41 |
| 26 - 30 | - | - | - | - | 82 | 45 |
| 41 - 50 | - | - | - | - | 450 | 263 |
| 51 - 67 | - | - | - | - | 420 | 147 |
| 68 AND OVER | - | - | 4,172 | 2,099 | 9,627 | 3,350 |
| TOTAL | - | - | 4,172 | 2,099 | 10,642 | 3,846 |
| WHITE: | | | | | | |
| UNDER 15 | 678 | 325 | - | - | - | - |
| 15 - 20 | 9,834 | 6,280 | 6,939 | 4,548 | 72 | 47 |
| 21 - 25 | 6,256 | 4,538 | 8,672 | 5,255 | - | - |
| 26 - 30 | 4,338 | 2,352 | 1,894 | 1,058 | 200 | 112 |
| 31 - 40 | 2,450 | 1,146 | 966 | 482 | - | - |
| 41 - 50 | 1,101 | 438 | 329 | 141 | - | - |
| 51 - 67 | 2,127 | 835 | - | - | - | - |
| 68 AND OVER | 376 | 136 | 285 | 142 | 1,523 | 586 |
| TOTAL | 29,159 | 16,370 | 19,087 | 11,626 | 1,795 | 745 |
| TOTAL, 1961 | 65,344 | 37,520 | 89,032 | 55,255 | 46,355 | 26,311 |
| TOTAL, 1960 | 61,945 | 45,961 | 34,889 | 19,402 | 39,402 | 25,433 |
| SPECIES AND SIZE | APRIL | | MAY | | JUNE | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BROWN: | | | | | | |
| UNDER 15 | 435 | \$296 | - | - | 802 | \$545 |
| 15 - 20 | 5,460 | 3,568 | 8,682 | \$5,650 | 5,916 | 3,842 |
| 21 - 25 | 212 | 99 | 966 | 580 | 5,994 | 3,618 |
| 26 - 30 | - | - | - | - | 11,197 | 6,138 |
| 31 - 40 | - | - | - | - | 58,720 | 28,606 |
| 41 - 50 | - | - | - | - | 42,534 | 18,358 |
| 51 - 67 | - | - | 100 | 42 | 51,251 | 19,537 |
| 68 AND OVER | - | - | 2,634 | 681 | 128,143 | 43,039 |
| TOTAL | 6,107 | 3,963 | 12,362 | 7,153 | 304,557 | 123,683 |
| PINK: | | | | | | |
| 15 - 20 | 771 | 506 | 773 | 489 | 1,024 | 661 |
| 21 - 25 | 908 | 553 | 15,803 | 9,582 | 12,065 | 7,145 |
| 26 - 30 | 33 | 18 | 3,179 | 1,793 | 12,905 | 6,889 |
| 31 - 40 | 3,396 | 1,712 | 7,200 | 3,776 | 12,669 | 6,399 |
| 41 - 50 | 530 | 232 | 1,245 | 593 | 2,550 | 1,051 |
| 51 - 67 | 3,612 | 1,449 | 224 | 67 | 1,043 | 387 |
| 68 AND OVER | 11,430 | 3,798 | 14,546 | 4,476 | 2,808 | 843 |
| TOTAL | 20,882 | 8,268 | 42,970 | 20,796 | 45,064 | 23,375 |
| WHITE: | | | | | | |
| 15 - 20 | - | - | 298 | 201 | 1,314 | 864 |
| 21 - 25 | - | - | 729 | 494 | 626 | 513 |
| 26 - 30 | 472 | 263 | 173 | 111 | 35 | 17 |
| 31 - 40 | 646 | 343 | 247 | 163 | 340 | 155 |
| 41 - 50 | 1,045 | 492 | 11 | 5 | - | - |
| 51 - 67 | 60 | 23 | - | - | - | - |
| TOTAL | 2,223 | 1,121 | 1,458 | 974 | 2,515 | 1,549 |
| TOTAL, 1961 | 29,212 | 13,352 | 56,610 | 28,923 | 352,136 | 148,607 |
| TOTAL, 1960 | 68,713 | 47,561 | 62,581 | 36,248 | 565,737 | 238,398 |

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GULF FISHERIES

259

ALABAMA SHRIMP LANDINGS, BY MONTHS, 1961 - Continued

| SPECIES AND SIZE | JULY | | AUGUST | | SEPTEMBER | |
|-----------------------|-----------|---------|---------|---------|-----------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BROWN: | | | | | | |
| UNDER 15 | 100 | \$73 | 720 | \$576 | 6,026 | \$5,083 |
| 15 - 20 | 6,105 | 4,052 | 23,011 | 17,084 | 23,206 | 18,135 |
| 21 - 25 | 11,224 | 6,736 | 73,173 | 52,626 | 67,634 | 50,562 |
| 26 - 30 | 67,466 | 38,002 | 55,693 | 36,712 | 53,286 | 37,662 |
| 31 - 40 | 143,953 | 73,495 | 82,038 | 47,340 | 28,442 | 16,483 |
| 41 - 50 | 90,859 | 43,917 | 40,547 | 20,758 | 1,910 | 1,101 |
| 51 - 67 | 147,841 | 66,188 | 39,927 | 18,166 | 1,050 | 505 |
| 68 AND OVER | 205,044 | 81,945 | 17,527 | 7,045 | - | - |
| TOTAL | 672,302 | 314,408 | 332,636 | 200,307 | 181,554 | 131,531 |
| PINK: | | | | | | |
| 15 - 20 | - | - | 236 | 169 | - | - |
| 31 - 40 | - | - | 240 | 137 | - | - |
| TOTAL | - | - | 476 | 306 | - | - |
| WHITE: | | | | | | |
| UNDER 15 | - | - | - | - | 227 | 204 |
| 15 - 20 | 250 | 156 | - | - | 180 | 144 |
| 21 - 25 | 32 | 19 | - | - | 610 | 621 |
| 26 - 30 | - | - | - | - | 140 | 109 |
| 31 - 40 | - | - | - | - | 4,380 | 2,842 |
| 41 - 50 | - | - | 997 | 479 | 70 | 29 |
| 51 - 67 | - | - | 15,192 | 6,330 | - | - |
| 68 AND OVER | - | - | - | - | - | - |
| TOTAL | 282 | 175 | 16,189 | 6,809 | 5,807 | 3,949 |
| TOTAL, 1961 | 672,584 | 314,583 | 349,301 | 207,422 | 187,361 | 135,480 |
| TOTAL, 1960 | 1,090,480 | 480,012 | 646,582 | 298,234 | 509,896 | 256,217 |

| SPECIES AND SIZE | OCTOBER | | NOVEMBER | | DECEMBER | | TOTAL | |
|-----------------------|---------|---------|----------|---------|----------|---------|-----------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BROWN: | | | | | | | | |
| UNDER 15 | - | - | - | - | - | - | 13,546 | \$10,082 |
| 15 - 20 | 2,795 | \$2,327 | 1,591 | \$1,303 | 9,798 | \$8,404 | 185,549 | 127,321 |
| 21 - 25 | 6,886 | 5,186 | 2,727 | 2,174 | 14,957 | 12,056 | 207,430 | 147,732 |
| 26 - 30 | 5,609 | 4,068 | 257 | 185 | 8,038 | 6,064 | 205,166 | 130,731 |
| 31 - 40 | 9,440 | 6,276 | 412 | 311 | 4,094 | 2,875 | 330,334 | 179,032 |
| 41 - 50 | 3,385 | 2,043 | 739 | 444 | 558 | 334 | 180,838 | 87,204 |
| 51 - 67 | 1,462 | 667 | 60 | 24 | 366 | 192 | 242,137 | 105,365 |
| 68 AND OVER | - | - | - | - | - | - | 353,408 | 132,931 |
| TOTAL | 29,577 | 20,587 | 5,786 | 4,441 | 37,831 | 29,925 | 1,718,408 | 920,398 |
| PINK: | | | | | | | | |
| 15 - 20 | 676 | 575 | - | - | - | - | 3,543 | 2,441 |
| 21 - 25 | 2,642 | 2,114 | - | - | - | - | 31,418 | 19,394 |
| 26 - 30 | 6,426 | 6,320 | - | - | - | - | 24,625 | 15,065 |
| 31 - 40 | 6,671 | 4,660 | - | - | - | - | 30,178 | 16,684 |
| 41 - 50 | 1,182 | 709 | - | - | - | - | 5,957 | 2,848 |
| 51 - 67 | - | - | - | - | - | - | 5,499 | 2,070 |
| 68 AND OVER | - | - | - | - | - | - | 42,783 | 14,566 |
| TOTAL | 19,597 | 14,378 | - | - | - | - | 144,003 | 73,068 |
| WHITE: | | | | | | | | |
| UNDER 15 | - | - | - | - | - | - | 905 | 529 |
| 15 - 20 | 1,944 | 1,606 | 9,087 | 7,726 | 7,577 | 6,481 | 37,495 | 28,053 |
| 21 - 25 | 7,842 | 6,225 | 31,004 | 24,877 | 10,785 | 8,787 | 68,958 | 51,649 |
| 26 - 30 | 571 | 424 | 22,154 | 16,667 | 14,185 | 10,714 | 44,159 | 31,827 |
| 31 - 40 | 642 | 409 | 12,808 | 8,984 | 12,908 | 8,599 | 35,387 | 23,123 |
| 41 - 50 | 4,910 | 2,621 | 5,066 | 3,154 | 8,044 | 5,012 | 20,506 | 11,863 |
| 51 - 67 | 2,064 | 1,125 | 3,823 | 2,240 | 1,584 | 860 | 10,725 | 5,591 |
| 68 AND OVER | - | - | - | - | 520 | 243 | 17,898 | 7,437 |
| TOTAL | 17,973 | 12,410 | 83,942 | 63,648 | 55,603 | 40,696 | 236,033 | 160,072 |
| TOTAL, 1961 | 67,147 | 47,375 | 89,728 | 68,069 | 93,434 | 70,621 | 2,098,444 | 1,153,538 |
| TOTAL, 1960 | 602,896 | 325,186 | 399,691 | 224,493 | 164,412 | 93,220 | 4,267,224 | 2,090,365 |

SEE NOTE ON PAGE 265.

GULF FISHERIES

MISSISSIPPI SHRIMP LANDINGS, BY MONTHS, 1961

| SPECIES AND SIZE | JANUARY | | FEBRUARY | | MARCH | |
|--------------------|---------|---------|----------|----------|--------|--------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BROWN: | | | | | | |
| UNDER 15 | - | - | - | - | 1,100 | \$748 |
| 15 - 20 | 11,619 | \$7,132 | 18,957 | \$11,617 | 32,913 | 20,692 |
| 21 - 25 | 6,565 | 4,692 | 6,953 | 4,068 | 250 | 145 |
| 26 - 30 | 4,149 | 2,123 | 1,075 | 563 | - | - |
| 31 - 40 | 438 | 211 | - | - | 125 | 58 |
| 41 - 50 | 2,630 | 1,172 | 63 | 27 | - | - |
| 51 - 67 | 675 | 315 | - | - | - | - |
| TOTAL | 28,276 | 15,845 | 27,048 | 16,495 | 34,388 | 21,643 |
| PINK: | | | | | | |
| 31 - 40 | - | - | - | - | 1,550 | 1,000 |
| 41 - 50 | - | - | - | - | 4,070 | 2,630 |
| 51 - 67 | - | - | - | - | 625 | 350 |
| TOTAL | - | - | - | - | 6,245 | 3,960 |
| WHITE: | | | | | | |
| 15 - 20 | 2,260 | 1,474 | 525 | 333 | - | - |
| 21 - 25 | 1,656 | 4,037 | 1,976 | 1,174 | - | - |
| 31 - 40 | 1,840 | 920 | - | - | - | - |
| TOTAL | 10,976 | 6,431 | 2,501 | 1,507 | - | - |
| TOTAL, 1961 | 39,252 | 22,276 | 29,549 | 18,002 | 40,633 | 25,823 |
| TOTAL, 1960 | 25,653 | 13,294 | 16,310 | 9,566 | 26,663 | 16,020 |

| SPECIES AND SIZE | APRIL | | MAY | | JUNE | |
|--------------------|--------|----------|--------|----------|-----------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BROWN: | | | | | | |
| UNDER 15 | - | - | - | - | 21 | \$14 |
| 15 - 20 | 20,275 | \$13,023 | 28,548 | \$16,217 | 12,431 | 7,665 |
| 21 - 25 | - | - | 6,898 | 4,015 | 2,741 | 1,352 |
| 26 - 30 | - | - | 636 | 454 | 5,672 | 3,028 |
| 31 - 40 | - | - | 375 | 195 | 6,613 | 3,373 |
| 41 - 50 | - | - | 270 | 108 | 47,900 | 21,066 |
| 51 - 67 | 129 | 51 | 3,241 | 1,295 | 259,948 | 102,251 |
| 68 AND OVER | - | - | - | - | 260,228 | 100,792 |
| TOTAL | 20,404 | 13,074 | 40,170 | 24,264 | 615,754 | 239,981 |
| PINK: | | | | | | |
| 15 - 20 | - | - | - | - | 1,035 | 659 |
| 21 - 25 | - | - | 1,783 | 1,059 | 2,724 | 1,533 |
| 26 - 30 | 1,210 | 800 | 2,345 | 1,305 | 5,691 | 3,210 |
| 31 - 40 | 5,470 | 3,204 | 10,245 | 5,115 | 20,076 | 9,530 |
| 41 - 50 | 3,400 | 1,665 | 3,671 | 1,689 | 16,307 | 7,135 |
| 51 - 67 | - | - | 160 | 90 | 3,458 | 1,498 |
| 68 AND OVER | - | - | - | - | 13,190 | 5,330 |
| TOTAL | 10,060 | 5,669 | 18,224 | 9,258 | 62,661 | 28,695 |
| WHITE: | | | | | | |
| 15 - 20 | - | - | - | - | 149 | 96 |
| 21 - 25 | - | - | - | - | 120 | 80 |
| TOTAL | - | - | - | - | 269 | 176 |
| TOTAL, 1961 | 30,484 | 18,763 | 58,394 | 33,542 | 678,704 | 269,052 |
| TOTAL, 1960 | 35,230 | 21,673 | 26,025 | 16,741 | 1,394,025 | 512,477 |

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GULF FISHERIES

MISSISSIPPI SHRIMP LANDINGS, BY MONTHS, 1961 - Continued

| SPECIES AND SIZE | JULY | | AUGUST | | SEPTEMBER | |
|------------------------------|-----------|---------|-----------|---------|-----------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BROWN: | | | | | | |
| UNDER 15 | - | - | - | - | 6,525 | \$5,371 |
| 15 - 20 | 1,800 | \$1,134 | 2,806 | \$2,104 | 8,107 | 5,734 |
| 21 - 25 | 3,200 | 1,856 | 16,873 | 11,822 | 34,485 | 24,601 |
| 26 - 30 | 7,700 | 4,072 | 61,117 | 47,765 | 69,091 | 45,539 |
| 31 - 40 | 82,792 | 45,454 | 197,895 | 105,223 | 39,715 | 22,493 |
| 41 - 50 | 163,155 | 72,996 | 97,179 | 45,737 | 7,488 | 3,638 |
| 51 - 67 | 445,968 | 183,038 | 49,621 | 20,202 | 4,839 | 2,235 |
| 68 AND OVER | 112,025 | 43,509 | 361 | 127 | 514 | 210 |
| TOTAL | 816,640 | 352,059 | 445,652 | 232,960 | 170,764 | 109,821 |
| PINK: | | | | | | |
| 15 - 20 | 150 | 98 | 250 | 140 | - | - |
| 21 - 25 | - | - | 523 | 449 | - | - |
| 26 - 30 | 3,996 | 2,137 | 1,799 | 1,225 | - | - |
| 31 - 40 | 7,554 | 3,982 | 927 | 485 | - | - |
| 41 - 50 | 1,118 | 524 | - | - | - | - |
| 51 - 67 | 243 | 96 | - | - | - | - |
| TOTAL | 13,061 | 6,837 | 3,499 | 2,299 | - | - |
| WHITE: | | | | | | |
| 15 - 20 | 80 | 52 | - | - | - | - |
| 21 - 25 | - | - | - | - | 2,626 | 1,710 |
| 26 - 30 | - | - | - | - | 16,626 | 10,252 |
| 31 - 40 | - | - | 1,449 | 720 | 8,680 | 5,171 |
| 41 - 50 | - | - | 4,723 | 2,194 | 4,563 | 2,218 |
| 51 - 67 | - | - | 2,220 | 908 | 1,438 | 683 |
| 68 AND OVER | - | - | 376 | 123 | 875 | 335 |
| TOTAL | 80 | 52 | 8,768 | 3,945 | 34,608 | 20,369 |
| TOTAL, 1961 | 829,781 | 358,948 | 458,119 | 239,224 | 205,572 | 130,190 |
| TOTAL, 1960 | 1,828,708 | 780,211 | 1,048,737 | 464,329 | 692,174 | 324,936 |

| SPECIES AND SIZE | OCTOBER | | NOVEMBER | | DECEMBER | | TOTAL | |
|------------------------------|---------|---------|----------|---------|----------|---------|-----------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BROWN: | | | | | | | | |
| UNDER 15 | 2,800 | \$2,175 | - | - | - | - | 10,446 | \$8,308 |
| 15 - 20 | 7,016 | 5,222 | 625 | \$450 | 6,223 | \$5,207 | 151,320 | 96,817 |
| 21 - 25 | 16,472 | 11,588 | 1,500 | 1,025 | 7,146 | 5,612 | 105,083 | 71,176 |
| 26 - 30 | 19,903 | 12,978 | 1,000 | 660 | 1,000 | 685 | 191,545 | 117,887 |
| 31 - 40 | 10,222 | 5,972 | - | - | 1,008 | 639 | 339,383 | 183,618 |
| 41 - 50 | 5,126 | 2,768 | 63 | 33 | 1,364 | 858 | 325,236 | 148,423 |
| 51 - 67 | 8,836 | 4,163 | 348 | 165 | 1,248 | 677 | 775,053 | 314,392 |
| 68 AND OVER | 277 | 114 | - | - | 125 | 50 | 393,530 | 144,802 |
| TOTAL | 70,652 | 44,980 | 3,536 | 2,333 | 18,114 | 13,728 | 2,291,598 | 1,087,423 |
| PINK: | | | | | | | | |
| 15 - 20 | - | - | - | - | - | - | 1,435 | 897 |
| 21 - 25 | - | - | - | - | - | - | 5,030 | 3,041 |
| 26 - 30 | - | - | - | - | - | - | 15,241 | 8,677 |
| 31 - 40 | - | - | - | - | - | - | 45,822 | 23,316 |
| 41 - 50 | - | - | - | - | - | - | 26,566 | 13,663 |
| 51 - 67 | - | - | - | - | - | - | 4,506 | 2,034 |
| 68 AND OVER | - | - | - | - | - | - | 13,190 | 5,330 |
| TOTAL | - | - | - | - | - | - | 113,790 | 56,958 |
| WHITE: | | | | | | | | |
| 15 - 20 | 3,314 | 2,450 | 1,420 | 1,078 | 186 | 157 | 7,954 | 5,640 |
| 21 - 25 | 18,418 | 12,872 | 15,072 | 11,093 | 16,532 | 12,825 | 61,600 | 43,791 |
| 26 - 30 | 11,752 | 7,282 | 9,057 | 5,996 | 12,073 | 8,311 | 49,508 | 31,841 |
| 31 - 40 | 9,875 | 5,705 | 16,746 | 10,264 | 7,341 | 4,807 | 45,931 | 27,587 |
| 41 - 50 | 2,718 | 1,476 | 14,043 | 7,828 | 3,303 | 2,092 | 29,550 | 15,808 |
| 51 - 67 | 3,500 | 1,695 | 4,456 | 2,306 | 8,769 | 5,135 | 20,383 | 10,727 |
| 68 AND OVER | 1,250 | 600 | - | - | 712 | 327 | 3,213 | 1,385 |
| TOTAL | 50,827 | 32,080 | 60,794 | 38,565 | 49,116 | 33,654 | 218,139 | 136,779 |
| TOTAL, 1961 | 121,479 | 77,060 | 64,330 | 40,898 | 67,230 | 47,382 | 2,623,527 | 1,281,160 |
| TOTAL, 1960 | 853,132 | 420,384 | 475,157 | 242,678 | 141,932 | 76,889 | 6,566,146 | 2,899,196 |

GULF FISHERIES

LOUISIANA SHRIMP LANDINGS, BY MONTHS, 1961

| SPECIES AND SIZE | JANUARY | | FEBRUARY | | MARCH | |
|-------------------------|---------|----------|-----------|----------|-----------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BROWN: | | | | | | |
| UNDER 15 | 545 | \$367 | 7,200 | \$4,901 | 36,364 | \$26,735 |
| 15 - 20 | 14,041 | 9,224 | 50,059 | 32,431 | 131,558 | 66,999 |
| 21 - 25 | 120,506 | 79,172 | 79,867 | 46,086 | 41,940 | 25,860 |
| 26 - 30 | 31,646 | 17,265 | 22,645 | 11,432 | 10,115 | 5,731 |
| 31 - 40 | 15,066 | 7,063 | 6,887 | 3,358 | 875 | 425 |
| 41 - 50 | 1,630 | 625 | 90 | 39 | 15 | 6 |
| 51 - 67 | 163 | 57 | 18 | 6 | - | - |
| 68 AND OVER | 172 | 52 | - | - | 4 | 1 |
| TOTAL | 163,769 | 106,865 | 166,486 | 100,253 | 222,871 | 145,457 |
| PINK, 21 - 25 | - | - | - | - | 393 | 252 |
| WHITE: | | | | | | |
| UNDER 15 | 1,793 | 1,306 | 1,017 | 744 | 122 | 89 |
| 15 - 20 | 74,460 | 50,221 | 31,559 | 20,966 | 12,059 | 6,050 |
| 21 - 25 | 136,526 | 83,430 | 17,927 | 11,120 | 11,641 | 6,983 |
| 26 - 30 | 67,951 | 35,179 | 14,168 | 8,087 | 3,001 | 1,667 |
| 31 - 40 | 60,360 | 29,865 | 12,904 | 6,433 | 1,527 | 680 |
| 41 - 50 | 3,601 | 1,432 | 205 | 94 | 1,716 | 755 |
| 51 - 67 | 540 | 211 | 3,445 | 1,759 | 4,251 | 1,347 |
| 68 AND OVER | 7,292 | 1,518 | 190 | 31 | 7 | 1 |
| TOTAL | 352,523 | 206,182 | 81,405 | 49,254 | 34,324 | 19,572 |
| SEA BOBS | 11,626 | 2,152 | 8,136 | 1,680 | - | - |
| TOTAL, 1961 | 548,120 | 315,199 | 256,027 | 151,187 | 257,588 | 165,281 |
| TOTAL, 1960 | 927,763 | 508,467 | 547,914 | 316,685 | 700,047 | 454,689 |
| SPECIES AND SIZE | APRIL | | MAY | | JUNE | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BROWN: | | | | | | |
| UNDER 15 | 22,339 | \$14,739 | 24,227 | \$15,924 | 11,595 | \$7,573 |
| 15 - 20 | 77,224 | 50,458 | 73,497 | 48,457 | 27,095 | 17,434 |
| 21 - 25 | 14,074 | 8,331 | 11,071 | 6,543 | 16,968 | 9,910 |
| 26 - 30 | 1,239 | 662 | 7,533 | 4,147 | 65,620 | 35,276 |
| 31 - 40 | 361 | 175 | 2,066 | 993 | 305,404 | 137,951 |
| 41 - 50 | - | - | 21,965 | 7,628 | 305,784 | 112,626 |
| 51 - 67 | - | - | 204,924 | 64,317 | 590,579 | 192,992 |
| 68 AND OVER | 86 | 13 | 1,229,415 | 311,690 | 1,620,686 | 493,166 |
| TOTAL | 115,323 | 74,378 | 1,574,698 | 459,699 | 2,941,751 | 1,006,950 |
| PINK: | | | | | | |
| 15 - 20 | - | - | 293 | 153 | - | - |
| 21 - 25 | - | - | 404 | 242 | 607 | 364 |
| 26 - 30 | - | - | 1,558 | 634 | 3,394 | 1,846 |
| 31 - 40 | - | - | 2,166 | 1,166 | 1,836 | 953 |
| 41 - 50 | - | - | - | - | 719 | 263 |
| TOTAL | - | - | 4,441 | 2,415 | 6,556 | 3,426 |
| WHITE: | | | | | | |
| UNDER 15 | 395 | 268 | 6,505 | 4,416 | 16,196 | 10,888 |
| 15 - 20 | 7,528 | 5,002 | 99,757 | 65,895 | 101,976 | 66,321 |
| 21 - 25 | 256 | 158 | 6,008 | 3,969 | 1,525 | 955 |
| 26 - 30 | 691 | 367 | 1,130 | 552 | 152 | 89 |
| 31 - 40 | 699 | 363 | 3,713 | 1,723 | 419 | 192 |
| 41 - 50 | 141 | 61 | - | - | 125 | 45 |
| 51 - 67 | 141 | 52 | - | - | - | - |
| 68 AND OVER | - | - | 83 | 14 | 447 | 90 |
| TOTAL | 9,651 | 6,291 | 117,796 | 76,599 | 120,820 | 80,550 |
| TOTAL, 1961 | 125,174 | 80,669 | 1,696,935 | 538,713 | 3,069,127 | 1,090,926 |
| TOTAL, 1960 | 871,167 | 575,762 | 2,470,332 | 856,768 | 6,921,613 | 2,414,360 |

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GULF FISHERIES

263

LOUISIANA SHRIMP LANDINGS, BY MONTHS, 1961 - Continued

| SPECIES AND SIZE | JULY | | AUGUST | | SEPTEMBER | |
|------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BROWN: | | | | | | |
| UNDER 15 | 43,839 | \$30,915 | 51,052 | \$39,936 | 6,360 | \$7,024 |
| 15 - 20 | 54,822 | 36,480 | 99,825 | 76,033 | 32,664 | 20,496 |
| 21 - 25 | 77,568 | 47,769 | 221,965 | 149,708 | 180,417 | 140,703 |
| 26 - 30 | 168,499 | 94,469 | 271,006 | 174,843 | 151,781 | 110,592 |
| 31 - 40 | 1,052,001 | 523,701 | 747,546 | 441,934 | 137,682 | 91,234 |
| 41 - 50 | 240,734 | 104,087 | 274,548 | 139,996 | 29,999 | 16,247 |
| 51 - 67 | 126,957 | 49,833 | 95,896 | 42,127 | 16,079 | 7,368 |
| 68 AND OVER | 742,299 | 236,683 | 80,000 | 26,898 | 117,652 | 43,207 |
| TOTAL | 2,506,719 | 1,125,937 | 1,841,838 | 1,091,475 | 674,634 | 442,871 |
| WHITE: | | | | | | |
| UNDER 15 | 3,843 | 2,753 | 1,527 | 1,196 | 53 | 45 |
| 15 - 20 | 10,711 | 7,345 | 6,313 | 4,879 | 7,856 | 6,740 |
| 21 - 25 | 5 | 3 | 338 | 237 | 114,051 | 86,549 |
| 26 - 30 | - | - | 5,878 | 4,241 | 89,665 | 65,657 |
| 31 - 40 | - | - | 62,299 | 38,401 | 295,022 | 173,036 |
| 41 - 50 | - | - | 138,556 | 67,671 | 34,733 | *18,835 |
| 51 - 67 | - | - | 35,896 | 16,654 | 52,460 | 24,941 |
| 68 AND OVER | - | - | 76,921 | 25,879 | 157,556 | 58,605 |
| TOTAL | 14,559 | 10,101 | 327,728 | 159,158 | 751,396 | 434,408 |
| SEA BOBS | - | - | 4,335 | 1,063 | 58,069 | 12,967 |
| TOTAL, 1961 | 2,521,278 | 1,136,038 | 2,173,901 | 1,251,696 | 1,484,099 | 690,246 |
| TOTAL, 1960 | 4,699,862 | 1,934,512 | 5,189,199 | 1,963,124 | 4,791,049 | 2,144,761 |

| SPECIES AND SIZE | OCTOBER | | NOVEMBER | | DECEMBER | | TOTAL | |
|------------------------------|------------------|------------------|------------------|------------------|------------------|----------------|-------------------|-------------------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BROWN: | | | | | | | | |
| UNDER 15 | 1,075 | \$868 | - | - | 310 | \$273 | 208,956 | \$149,295 |
| 15 - 20 | 12,436 | 10,101 | 920 | \$751 | 911 | 796 | 575,052 | 395,660 |
| 21 - 25 | 60,180 | 46,643 | 2,359 | 1,839 | 11,057 | 8,911 | 837,712 | 566,175 |
| 26 - 30 | 75,807 | 55,309 | 4,575 | 3,363 | 36,717 | 28,990 | 847,183 | 542,101 |
| 31 - 40 | 19,879 | 12,832 | 9,526 | 6,526 | 13,035 | 9,262 | 2,308,326 | 1,235,454 |
| 41 - 50 | 9,118 | 5,047 | 1,544 | 953 | 1,375 | 857 | 886,802 | 388,111 |
| 51 - 67 | 8,173 | 3,923 | 1,965 | 1,049 | 1,939 | 1,085 | 1,046,693 | 362,757 |
| 68 AND OVER | 308 | 100 | - | - | - | - | 3,790,622 | 1,113,830 |
| TOTAL | 186,976 | 134,843 | 20,889 | 14,481 | 65,344 | 50,174 | 10,501,298 | 4,753,383 |
| PINK: | | | | | | | | |
| 15 - 20 | - | - | - | - | - | - | 293 | 153 |
| 21 - 25 | - | - | - | - | - | - | 1,404 | 858 |
| 26 - 30 | - | - | - | - | - | - | 4,952 | 2,680 |
| 31 - 40 | - | - | - | - | - | - | 4,022 | 2,139 |
| 41 - 50 | - | - | - | - | - | - | 719 | 263 |
| TOTAL | - | - | - | - | - | - | 11,390 | 6,093 |
| WHITE: | | | | | | | | |
| UNDER 15 | 621 | 488 | 5,212 | 4,565 | 2,206 | 1,944 | 39,490 | 28,702 |
| 15 - 20 | 171,969 | 144,724 | 138,960 | 116,189 | 86,281 | 73,786 | 749,449 | 572,138 |
| 21 - 25 | 462,264 | 357,023 | 133,118 | 103,784 | 61,936 | 50,082 | 946,195 | 704,313 |
| 26 - 30 | 178,003 | 129,340 | 84,147 | 62,626 | 103,719 | 78,273 | 548,475 | 389,078 |
| 31 - 40 | 227,564 | 144,973 | 191,228 | 123,615 | 171,930 | 113,385 | 1,027,665 | 632,686 |
| 41 - 50 | 232,921 | 129,771 | 148,091 | 85,645 | 91,275 | 53,910 | 651,364 | 385,219 |
| 51 - 67 | 623,096 | 281,090 | 426,934 | 212,633 | 129,689 | 66,135 | 1,276,452 | 604,822 |
| 68 AND OVER | 330,950 | 132,954 | 566,513 | 236,980 | 113,099 | 46,957 | 1,253,058 | 503,029 |
| TOTAL | 2,227,408 | 1,320,363 | 1,694,203 | 946,037 | 760,135 | 484,472 | 6,492,148 | 3,792,987 |
| SEA BOBS | 420,506 | 92,928 | 574,929 | 144,086 | 385,793 | 105,501 | 1,463,596 | 360,377 |
| TOTAL, 1961 | 2,634,890 | 1,548,134 | 2,290,021 | 1,104,604 | 1,211,272 | 640,147 | 18,468,432 | 8,912,840 |
| TOTAL, 1960 | 5,344,602 | 2,704,477 | 3,265,991 | 1,492,058 | 1,030,009 | 514,904 | 36,759,568 | 15,880,567 |

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GULF FISHERIES

TEXAS SHRIMP LANDINGS, BY MONTHS, 1961

| SPECIES AND SIZE | JANUARY | | FEBRUARY | | MARCH | |
|------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BROWN: | | | | | | |
| UNDER 15 | 222,664 | \$151,641 | 152,289 | \$104,452 | 147,031 | \$99,436 |
| 15 - 20 | 276,882 | 177,968 | 227,036 | 147,849 | 254,215 | 164,284 |
| 21 - 25 | 314,426 | 183,310 | 181,461 | 107,545 | 200,699 | 118,625 |
| 26 - 30 | 232,429 | 157,394 | 140,294 | 76,482 | 147,140 | 80,704 |
| 31 - 40 | 311,538 | 147,567 | 140,223 | 69,557 | 111,047 | 53,458 |
| 41 - 50 | 15,429 | 6,257 | 15,826 | 7,278 | 11,934 | 4,924 |
| 51 - 67 | 6,107 | 2,243 | 2,556 | 1,141 | 2,205 | 912 |
| 68 AND OVER | 11 | 5 | 127 | 68 | 6 | 5 |
| TOTAL | 1,439,466 | 826,385 | 859,812 | 514,372 | 874,279 | 522,348 |
| PINK: | | | | | | |
| UNDER 15 | 3,595 | 2,515 | 13,246 | 9,463 | 5,700 | 3,967 |
| 15 - 20 | 29,165 | 19,237 | 78,018 | 50,230 | 37,419 | 23,521 |
| 21 - 25 | 56,691 | 32,996 | 184,195 | 109,210 | 170,504 | 101,661 |
| 26 - 30 | 25,788 | 14,111 | 45,209 | 24,658 | 65,195 | 35,609 |
| 31 - 40 | 36,768 | 17,714 | 73,170 | 35,672 | 105,277 | 49,955 |
| 41 - 50 | 1,705 | 764 | 16,220 | 7,552 | 30,426 | 12,338 |
| 51 - 67 | 4,695 | 2,297 | 17,940 | 7,156 | 19,128 | 7,434 |
| 68 AND OVER | 11 | 5 | - | - | - | - |
| TOTAL | 158,618 | 89,639 | 427,998 | 243,951 | 433,649 | 234,485 |
| WHITE: | | | | | | |
| UNDER 15 | 1,200 | 819 | 2,120 | 1,462 | 1,920 | 1,321 |
| 15 - 20 | 20,776 | 13,302 | 21,285 | 13,336 | 23,846 | 15,370 |
| 21 - 25 | 21,109 | 12,695 | 17,668 | 10,448 | 18,159 | 10,807 |
| 26 - 30 | 9,351 | 5,047 | 15,199 | 6,258 | 22,071 | 12,095 |
| 31 - 40 | 35,727 | 17,152 | 30,300 | 14,789 | 115,408 | 53,793 |
| 41 - 50 | 14,330 | 5,703 | 16,635 | 7,213 | 102,640 | 43,687 |
| 51 - 67 | 17,827 | 6,350 | 97,639 | 32,993 | 66,608 | 22,415 |
| 68 AND OVER | 19,105 | 4,037 | 1,335 | 305 | 1,497 | 533 |
| TOTAL | 139,425 | 65,105 | 202,181 | 86,606 | 352,149 | 160,021 |
| TOTAL, 1961 | 1,737,529 | 981,129 | 1,489,991 | 847,129 | 1,660,077 | 916,854 |
| TOTAL, 1960 | 1,180,316 | 649,816 | 927,816 | 530,600 | 981,321 | 574,543 |
| SPECIES AND SIZE | APRIL | | MAY | | JUNE | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BROWN: | | | | | | |
| UNDER 15 | 95,549 | \$63,802 | 125,602 | \$81,350 | 151,783 | \$103,794 |
| 15 - 20 | 291,963 | 166,381 | 532,644 | 334,602 | 381,710 | 240,041 |
| 21 - 25 | 223,598 | 131,899 | 265,171 | 154,120 | 213,098 | 125,084 |
| 26 - 30 | 96,076 | 52,318 | 74,162 | 39,196 | 188,368 | 101,993 |
| 31 - 40 | 70,375 | 33,282 | 51,969 | 23,571 | 699,576 | 316,166 |
| 41 - 50 | 17,257 | 6,664 | 27,268 | 10,506 | 470,049 | 184,307 |
| 51 - 67 | 6,179 | 2,130 | 7,590 | 2,929 | 265,385 | 90,058 |
| 68 AND OVER | 5 | 2 | 631 | 148 | 29,424 | 5,238 |
| TOTAL | 801,002 | 476,478 | 1,085,037 | 646,422 | 2,400,363 | 1,166,681 |
| PINK: | | | | | | |
| UNDER 15 | 1,270 | 957 | 815 | 531 | 110 | 64 |
| 15 - 20 | 15,694 | 10,181 | 14,325 | 8,990 | 4,262 | 2,720 |
| 21 - 25 | 37,424 | 22,152 | 46,607 | 26,969 | 15,011 | 8,765 |
| 26 - 30 | 41,285 | 22,601 | 28,598 | 14,783 | 22,125 | 11,644 |
| 31 - 40 | 45,402 | 21,605 | 62,210 | 28,298 | 34,718 | 16,005 |
| 41 - 50 | 20,659 | 8,376 | 32,399 | 12,217 | 26,822 | 10,251 |
| 51 - 67 | 16,063 | 5,330 | 26,953 | 9,645 | 26,818 | 9,412 |
| TOTAL | 177,997 | 91,202 | 211,907 | 101,433 | 129,866 | 58,861 |
| WHITE: | | | | | | |
| UNDER 15 | 2,728 | 1,830 | 7,840 | 5,162 | 1,220 | 869 |
| 15 - 20 | 15,809 | 10,293 | 298,797 | 161,577 | 48,052 | 30,076 |
| 21 - 25 | 15,484 | 9,173 | 54,047 | 30,975 | 3,794 | 2,058 |
| 26 - 30 | 22,074 | 11,917 | 3,694 | 1,389 | 22,152 | 11,740 |
| 31 - 40 | 67,948 | 32,938 | 22,641 | 10,332 | 6,78 | 311 |
| 41 - 50 | 7,935 | 3,175 | 272 | 103 | 125 | 48 |
| 51 - 67 | 2,986 | 934 | 25,060 | 7,999 | 4,853 | 1,696 |
| 68 AND OVER | 19 | 5 | 99 | 25 | - | - |
| TOTAL | 134,983 | 70,265 | 372,450 | 218,162 | 80,874 | 45,798 |
| SEA BOBS | 69 | 7 | - | - | - | - |
| TOTAL, 1961 | 1,114,051 | 637,952 | 1,669,394 | 966,017 | 2,611,103 | 1,272,340 |
| TOTAL, 1960 | 1,334,413 | 804,903 | 1,427,136 | 942,085 | 1,221,052 | 834,938 |

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GULF FISHERIES

265

TEXAS SHRIMP LANDINGS, BY MONTHS, 1961 - Continued

| SPECIES AND SIZE | JULY | | AUGUST | | SEPTEMBER | |
|------------------------------|-----------|-----------|------------|-----------|-----------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BROWN: | | | | | | |
| UNDER 15 | 112,205 | \$80,281 | 152,210 | \$127,583 | 283,179 | \$236,655 |
| 15 - 20 | 153,205 | 103,356 | 424,097 | 336,565 | 618,561 | 499,206 |
| 21 - 25 | 248,116 | 154,062 | 445,468 | 326,914 | 744,213 | 562,474 |
| 26 - 30 | 373,484 | 210,987 | 934,263 | 641,468 | 684,900 | 483,692 |
| 31 - 40 | 2,178,809 | 1,022,483 | 2,220,050 | 1,317,874 | 656,995 | 544,912 |
| 41 - 50 | 863,472 | 339,577 | 595,301 | 305,793 | 240,859 | 134,616 |
| 51 - 67 | 193,362 | 69,211 | 91,569 | 42,911 | 36,545 | 18,314 |
| 68 AND OVER | 227,395 | 46,534 | 13,077 | 3,448 | 434 | 94 |
| TOTAL | 4,350,048 | 2,026,491 | 4,877,055 | 3,102,556 | 3,465,696 | 2,481,963 |
| PINK: | | | | | | |
| UNDER 15 | 30 | 22 | 2,570 | 2,170 | 2,420 | 2,079 |
| 15 - 20 | 683 | 441 | 14,570 | 11,656 | 16,104 | 12,841 |
| 21 - 25 | 5,524 | 3,214 | 14,770 | 11,171 | 19,405 | 14,964 |
| 26 - 30 | 1,581 | 858 | 23,285 | 16,463 | 37,538 | 27,512 |
| 31 - 40 | 3,327 | 1,525 | 16,640 | 10,303 | 39,927 | 23,966 |
| 41 - 50 | 780 | 312 | 8,122 | 4,445 | 19,069 | 10,583 |
| 51 - 67 | 560 | 196 | 9,143 | 4,466 | 15,312 | 7,792 |
| TOTAL | 12,485 | 6,568 | 89,100 | 60,674 | 149,795 | 99,737 |
| WHITE: | | | | | | |
| UNDER 15 | 14,009 | 9,977 | 3,523 | 2,691 | 1,930 | 1,110 |
| 15 - 20 | 165,468 | 108,855 | 57,655 | 41,450 | 1,021 | 768 |
| 21 - 25 | 6,205 | 5,183 | 6,119 | 4,885 | 59,643 | 39,851 |
| 26 - 30 | 5,802 | 3,397 | 18,593 | 12,917 | 99,466 | 65,875 |
| 31 - 40 | 6,070 | 3,802 | 128,809 | 81,001 | 248,770 | 158,876 |
| 41 - 50 | 6,78 | 34 | 134,744 | 72,896 | 112,015 | 61,213 |
| 51 - 67 | 1,828 | 739 | 120,903 | 58,578 | 112,166 | 49,085 |
| 68 AND OVER | - | - | 119,272 | 29,876 | 35,469 | 11,683 |
| TOTAL | 203,460 | 131,967 | 584,118 | 299,694 | 668,690 | 387,461 |
| SEA BOBS | 30 | 9 | 14,046 | 2,107 | - | - |
| TOTAL, 1961 | 4,566,023 | 2,165,055 | 5,564,319 | 3,465,231 | 4,284,181 | 2,969,161 |
| TOTAL, 1960 | 9,677,122 | 4,368,904 | 10,105,718 | 4,660,061 | 8,680,270 | 4,328,147 |

| SPECIES AND SIZE | OCTOBER | | NOVEMBER | | DECEMBER | | TOTAL | |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-------------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BROWN: | | | | | | | | |
| UNDER 15 | 251,339 | \$206,337 | 56,740 | \$49,000 | 50,844 | \$44,025 | 1,601,435 | \$1,350,364 |
| 15 - 20 | 732,350 | 578,669 | 356,494 | 294,399 | 333,427 | 284,158 | 4,582,584 | 3,347,472 |
| 21 - 25 | 207,499 | 518,781 | 99,888 | 79,436 | 160,101 | 128,622 | 3,797,738 | 2,591,072 |
| 26 - 30 | 307,573 | 212,008 | 23,956 | 16,369 | 64,353 | 48,745 | 3,327,020 | 2,123,556 |
| 31 - 40 | 429,858 | 270,314 | 126,009 | 86,714 | 130,759 | 88,236 | 7,327,208 | 3,974,134 |
| 41 - 50 | 203,257 | 113,915 | 64,017 | 39,009 | 51,600 | 31,759 | 2,577,263 | 1,184,605 |
| 51 - 67 | 18,338 | 9,610 | 8,059 | 4,582 | 10,675 | 6,002 | 649,540 | 290,043 |
| 68 AND OVER | - | - | - | - | - | - | 271,112 | 55,542 |
| TOTAL | 2,644,214 | 1,909,634 | 735,165 | 571,511 | 801,763 | 631,747 | 24,333,920 | 14,876,588 |
| PINK: | | | | | | | | |
| UNDER 15 | 9,593 | 7,897 | 5,715 | 4,974 | 13,097 | 11,425 | 58,161 | 46,064 |
| 15 - 20 | 17,689 | 14,300 | 34,320 | 28,715 | 128,947 | 109,253 | 391,396 | 292,085 |
| 21 - 25 | 32,159 | 24,167 | 151,429 | 118,039 | 190,671 | 150,225 | 924,586 | 623,529 |
| 26 - 30 | 58,982 | 42,110 | 179,586 | 126,383 | 114,488 | 85,105 | 637,660 | 422,807 |
| 31 - 40 | 50,800 | 113,723 | 228,233 | 152,371 | 116,842 | 81,906 | 941,896 | 553,043 |
| 41 - 50 | 179,382 | 26,046 | 64,545 | 38,842 | 29,855 | 18,114 | 301,622 | 151,850 |
| 51 - 67 | 6,456 | 3,474 | 9,732 | 5,322 | 8,121 | 4,497 | 160,921 | 67,021 |
| 68 AND OVER | - | - | - | - | - | - | 11 | 5 |
| TOTAL | 385,261 | 233,717 | 667,560 | 474,612 | 602,017 | 461,525 | 3,416,253 | 2,156,404 |
| WHITE: | | | | | | | | |
| UNDER 15 | 2,038 | 1,729 | 8,374 | 7,281 | 6,997 | 6,076 | 52,099 | 39,327 |
| 15 - 20 | 17,636 | 63,762 | 250,765 | 205,338 | 118,519 | 101,112 | 1,059,639 | 765,241 |
| 21 - 25 | 610,047 | 459,112 | 344,911 | 266,830 | 169,818 | 136,187 | 1,323,504 | 983,604 |
| 26 - 30 | 409,741 | 284,649 | 128,836 | 93,247 | 104,556 | 78,478 | 861,535 | 589,609 |
| 31 - 40 | 349,147 | 209,088 | 204,256 | 131,504 | 180,670 | 120,899 | 1,392,424 | 894,485 |
| 41 - 50 | 304,796 | 158,716 | 104,154 | 46,344 | 49,436 | 29,303 | 847,160 | 428,435 |
| 51 - 67 | 165,560 | 77,850 | 221,463 | 92,096 | 41,080 | 20,834 | 877,973 | 371,671 |
| 68 AND OVER | 53,140 | 14,469 | 156,971 | 46,694 | 61,586 | 16,476 | 448,493 | 124,323 |
| TOTAL | 1,972,105 | 1,269,395 | 1,419,730 | 899,636 | 732,662 | 509,365 | 6,862,627 | 4,136,895 |
| SEA BOBS | 132,067 | 7,513 | 107,910 | 8,188 | 112,591 | 20,717 | 366,713 | 38,541 |
| TOTAL, 1961 | 5,103,647 | 3,420,259 | 2,930,365 | 1,943,947 | 2,249,033 | 1,623,354 | 34,979,713 | 21,208,428 |
| TOTAL, 1960 | 3,765,827 | 3,671,224 | 4,370,705 | 2,288,182 | 1,723,106 | 952,621 | 48,394,802 | 24,606,244 |

NOTE:--ALL WEIGHTS ARE ON HEADS-OF SHRIMP. THE SIZE INDICATES THE NUMBER OF HEADS-OFF SHRIMP TO THE POUND. TO CONVERT TO HEADS-ON MULTIPLY BY 1.68 FOR BROWN, PINK, WHITE, AND SEA BOBS. THE AREAS LISTED REPRESENT THE STATES WHERE THE SHRIMP WERE LANDED REGARDLESS OF WHERE CAUGHT. THE NAMES OF THE SPECIES USED IN THESE TABLES ARE AS FOLLOWS: WHITE SHRIMP (MOSTLY PENAEUS SETIFERUS), BROWN SHRIMP (PENAEUS AZTECUS, AND IN SOME CASES PENAEUS BRASILIENSIS), PINK SHRIMP (PENAEUS DUORARUM), AND SEA BOBS (MOSTLY XIPHOPEAEUS KROYERI). THE VALUE REPORTED IS THE AMOUNT RECEIVED BY THE OWNERS OR OPERATORS OF THE VESSEL FOR THE FIRST SALE AT THE DOCK. ANY EXPENSES INVOLVED IN HANDLING OR PROCESSING ASHORE ARE NOT INCLUDED, EVEN THOUGH CHARGEABLE TO THE VESSEL. THE SIZE REPORTED GENERALLY IS THAT USED AS OF THE FIRST SALE. SIZE GRADING IN VARYING DEGREES OF UNIFORMITY MAY OR MAY NOT OCCUR AT OR PRIOR TO, THE TIME FIRST SALES ARE MADE. IF GRADING IS NOT DONE AT THIS TIME, THE SIZE REPORTED IS AN AVERAGE SIZE AND MAY INCLUDE SEVERAL SIZE CLASSIFICATIONS.

GULF FISHERIES

GULF COAST SHRIMP CATCH, BY AREA OF CAPTURE, 1961

| MAJOR WATER AREAS, DEPTH, AND SPECIES | TRIPS NUMBER | DAYS FISHED | SIZE (NUMBER OF HEADS-OFF SHRIMP TO THE POUND) | | | | | | | | | | | TOTAL POUNDS |
|--|-----------------|----------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|------------|------------|---|-----------------|
| | | | UNDER 15 POUNDS | 15 - 20 POUNDS | 21 - 25 POUNDS | 26 - 30 POUNDS | 31 - 40 POUNDS | 41 - 50 POUNDS | 51 - 67 POUNDS | 68 & OVER POUNDS | | | | |
| SANIBEL-TORTUGAS AREA: 0 - 5 FATHOMS | 7.5 | 11.1 | - | - | 26 | 646 | 526 | 5,450 | 324 | - | - | - | - | 6,962 |
| 6 - 20 FATHOMS: | | | 254 | 160 | 225 | 162 | 221 | 221 | 1,394 | 431 | 1,042 | | | |
| BROWN | | | - | 277,504 | 1,631,649 | 2,035,525 | 1,457,584 | 2,035,525 | 1,631,563 | 1,394,431 | 2,324,369 | 10,952,365 | | 1,042 |
| PINK | | | - | - | 42 | - | 600 | - | - | - | - | - | - | 642 |
| WHITE | | | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 8,637.0 | 15,654.6 | 254 | 277,504 | 1,732,116 | 1,457,646 | 2,039,344 | 1,731,173 | 1,694,431 | 2,324,369 | 10,954,649 | | | |
| 21 - 70 FATHOMS: | | | - | 35,600 | 69,437 | 23,592 | 22,365 | 6,301 | 1,619 | 651 | 160,555 | | | |
| PINK, TOTAL | 489.7 | 1,463.2 | - | 35,600 | 69,437 | 23,592 | 22,365 | 6,301 | 1,619 | 651 | 160,555 | | | |
| TOTAL, SANIBEL-TORTUGAS AREA | 9,133.2 | 17,337.6 | 254 | 313,264 | 1,700,779 | 1,482,074 | 2,059,231 | 1,745,474 | 1,699,374 | 2,324,040 | 11,122,114 | | | |
| APALACHICOLA AREA: 0 - 5 FATHOMS | | | - | - | 658 | 22,050 | 21,713 | 12,656 | 104,199 | 59,265 | 220,543 | | | |
| BROWN | | | - | 104 | 4,755 | 35,024 | 197,756 | 204,151 | 245,140 | 132,500 | 619,430 | | | |
| PINK | | | - | 761 | 4,779 | 36,123 | 54,092 | 36,310 | 61,241 | 290,123 | 483,468 | | | |
| WHITE | | | - | - | - | - | - | - | - | - | - | | | |
| SEA BOBS | | | - | - | - | - | - | - | - | - | - | | | |
| TOTAL | 6,012.7 | 4,094.7 | 49 | 665 | 10,192 | 93,197 | 273,551 | 253,119 | 410,560 | 1,051,992 | 1,447,545 | | | |
| 6 - 20 FATHOMS: | | | - | - | 36 | 4,516 | 772 | 85 | 2,399 | 7,809 | 16,509 | | | |
| BROWN | | | - | 6,277 | 137,560 | 135,463 | 92,311 | 25,741 | 19,691 | 9,619 | 427,002 | | | |
| PINK | | | - | 1,455 | 3,747 | 9,253 | 7,652 | 1,666 | 1,404 | 1,761 | 25,240 | | | |
| WHITE | | | - | - | - | - | - | - | - | - | - | | | |
| SEA BOBS | | | - | - | - | - | - | - | - | - | - | | | |
| TOTAL | 1,056.3 | 1,056.6 | - | 7,732 | 141,343 | 149,232 | 100,735 | 27,514 | 23,694 | 11,623 | 461,673 | | | |
| TOTAL, APALACHICOLA AREA | 9,069.0 | 5,151.3 | 49 | 6,997 | 151,535 | 242,429 | 374,266 | 280,633 | 434,274 | 617,615 | 2,109,416 | | | |
| PENSACOLA TO MISSISSIPPI RIVER: 0 - 5 FATHOMS | | | 21 | 474 | 11,773 | 59,753 | 404,186 | 481,670 | 667,660 | 764,699 | 2,569,156 | | | |
| BROWN | | | - | 604 | 3,575 | 12,556 | 103,017 | 131,326 | 3,285 | 17,780 | 457,840 | | | |
| PINK | | | 227 | 7,797 | 5,370 | 79,525 | 108,419 | 69,519 | 74,523 | 59,362 | 457,780 | | | |
| WHITE | | | - | - | - | - | - | - | - | - | - | | | |
| SEA BOBS | | | - | - | - | - | - | - | - | - | - | | | |
| TOTAL | 17,209.3 | 11,564.0 | 248 | 9,075 | 69,606 | 150,174 | 539,662 | 575,432 | 945,739 | 872,503 | 3,117,459 | | | |
| 6 - 20 FATHOMS: | | | 6,302 | 164,804 | 256,914 | 365,373 | 665,373 | 399,397 | 306,761 | 44,364 | 2,459,298 | | | |
| BROWN | | | - | 3,825 | 3,825 | 27,774 | 39,115 | 17,422 | 2,015 | 200 | 122,016 | | | |
| PINK | | | 6,788 | 161,000 | 253,089 | 327,600 | 626,258 | 381,975 | 304,746 | 44,164 | 2,459,098 | | | |
| WHITE | | | - | 35,040 | 63,645 | 34,091 | 29,739 | 12,251 | 5,023 | 2,007 | 161,029 | | | |
| SEA BOBS | | | - | - | - | - | - | - | - | - | - | | | |
| TOTAL | 2,397.2 | 5,597.9 | 6,960 | 203,247 | 351,764 | 427,448 | 1,054,669 | 399,290 | 313,799 | 47,133 | 2,764,390 | | | |

(CONTINUED ON NEXT PAGE)

SEE NOTE AT END OF TABLE.

GULF FISHERIES

GULF COAST SHRIMP CATCH, BY AREA OF CAPTURE, 1961 - Continued

| MAJOR WATER AREAS, DEPTH, AND SPECIES | TRIPS | DAYS FISHED | SIZE (NUMBER OF HEADS-OFF SHRIMP TO THE POUND) | | | | | | | | | | | 68 & OVER | TOTAL | | | |
|---|-------|-------------|--|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|-----------|-------|--------|--------|--------|
| | | | UNDER 15 | 15 - 20 | 21 - 25 | 26 - 30 | 31 - 40 | 41 - 50 | 51 - 67 | POUNDS | POUNDS | POUNDS | POUNDS | | | POUNDS | POUNDS | POUNDS |
| PENSACOLA TO MISSISSIPPI RIVER - | | | | | | | | | | | | | | | | | | |
| CONTINUED: | | | | | | | | | | | | | | | | | | |
| 21 BROWN FATHOMS: | | | | | | | | | | | | | | | | | | |
| BROWN | | | | | | | | | | | | | | | | | | |
| PINK | | | | | | | | | | | | | | | | | | |
| WHITE | | | | | | | | | | | | | | | | | | |
| SEA BOBS | | | | | | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | | | | | | |
| 20 BROWN FATHOMS: | | | | | | | | | | | | | | | | | | |
| BROWN | | | | | | | | | | | | | | | | | | |
| PINK | | | | | | | | | | | | | | | | | | |
| WHITE | | | | | | | | | | | | | | | | | | |
| SEA BOBS | | | | | | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | | | | | | |
| TOTAL, PENNSACOLA TO MISSISSIPPI RIVER | | | | | | | | | | | | | | | | | | |
| MISSISSIPPI RIVER TO TEXAS: | | | | | | | | | | | | | | | | | | |
| 6 - 20 FATHOMS: | | | | | | | | | | | | | | | | | | |
| BROWN | | | | | | | | | | | | | | | | | | |
| PINK | | | | | | | | | | | | | | | | | | |
| WHITE | | | | | | | | | | | | | | | | | | |
| SEA BOBS | | | | | | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | | | | | | |
| 21 - 50 FATHOMS: | | | | | | | | | | | | | | | | | | |
| BROWN | | | | | | | | | | | | | | | | | | |
| PINK | | | | | | | | | | | | | | | | | | |
| WHITE | | | | | | | | | | | | | | | | | | |
| SEA BOBS | | | | | | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | | | | | | |
| TOTAL, MISSISSIPPI RIVER TO TEXAS | | | | | | | | | | | | | | | | | | |
| TEXAS COAST: | | | | | | | | | | | | | | | | | | |
| 0 - 5 FATHOMS: | | | | | | | | | | | | | | | | | | |
| BROWN | | | | | | | | | | | | | | | | | | |
| PINK | | | | | | | | | | | | | | | | | | |
| WHITE | | | | | | | | | | | | | | | | | | |
| SEA BOBS | | | | | | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | | | | | | |
| 6 - 20 FATHOMS: | | | | | | | | | | | | | | | | | | |
| BROWN | | | | | | | | | | | | | | | | | | |
| PINK | | | | | | | | | | | | | | | | | | |
| WHITE | | | | | | | | | | | | | | | | | | |
| SEA BOBS | | | | | | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | | | | | | |
| 21 - 50 FATHOMS: | | | | | | | | | | | | | | | | | | |
| BROWN | | | | | | | | | | | | | | | | | | |
| PINK | | | | | | | | | | | | | | | | | | |
| WHITE | | | | | | | | | | | | | | | | | | |
| SEA BOBS | | | | | | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | | | | | | |
| TOTAL TEXAS COAST | | | | | | | | | | | | | | | | | | |

(CONTINUED ON NEXT PAGE)

SEE NOTE AT END OF TABLE.

GULF FISHERIES

GULF COAST SHRIMP CATCH, BY AREA OF CAPTURE, 1961 - Continued

| MAJOR WATER AREAS, DEPTH, AND SPECIES | TRIP NUMBER | DAYS FISHED NUMBER | SIZE (NUMBER OF HEADS-OFF SHRIMP TO THE POUNDS) | | | | | | | | | | | | 68 & OVER POUNDS | TOTAL POUNDS | |
|--|-------------|--------------------|---|----------------|----------------|----------------|----------------|----------------|----------------|------------------|--|--|--|--|------------------|--------------|--------------|
| | | | UNDER 15 POUNDS | 15 - 20 POUNDS | 21 - 25 POUNDS | 26 - 30 POUNDS | 31 - 40 POUNDS | 41 - 50 POUNDS | 51 - 67 POUNDS | 68 & OVER POUNDS | | | | | | | |
| HIGH SEAS OFF MEXICAN COAST - 94° LONGITUDE WEST - CONTINUED: | | | | | | | | | | | | | | | | | |
| 0 - 5 FATHOMS: | | | | | | | | | | | | | | | | | |
| BROWN | | | | | | | | | | | | | | | | | 590 |
| WHITE | | | | | | | | | | | | | | | | | 7,904 |
| TOTAL | 6, 4 | 12.7 | | | | | | | | | | | | | | | 8,494 |
| 6 - 20 FATHOMS: | | | | | | | | | | | | | | | | | |
| BROWN | | | | | | | | | | | | | | | | | |
| WHITE | | | | | | | | | | | | | | | | | |
| TOTAL | 1, 584.5 | 1, 959.7 | | | | | | | | | | | | | | | 3, 275, 973 |
| 21 - 45 FATHOMS: | | | | | | | | | | | | | | | | | |
| BROWN | | | | | | | | | | | | | | | | | |
| WHITE | | | | | | | | | | | | | | | | | |
| TOTAL | 3, 072.1 | 9, 575.3 | | | | | | | | | | | | | | | 4, 630, 828 |
| TOTAL HIGH SEAS OFF MEXICAN COAST - 94° LONGITUDE WEST | 4, 663.0 | 11, 547.7 | | | | | | | | | | | | | | | 8, 029, 368 |
| HIGH SEAS OFF OREGON-CAMPECHE: | | | | | | | | | | | | | | | | | |
| 0 FATHOMS: | | | | | | | | | | | | | | | | | |
| PINK | | | | | | | | | | | | | | | | | |
| WHITE | | | | | | | | | | | | | | | | | |
| TOTAL | 5.7 | 89.0 | | | | | | | | | | | | | | | 42, 653 |
| 6 - 20 FATHOMS: | | | | | | | | | | | | | | | | | |
| BROWN | | | | | | | | | | | | | | | | | |
| PINK | | | | | | | | | | | | | | | | | |
| WHITE | | | | | | | | | | | | | | | | | |
| TOTAL | 1, 136.3 | 14, 639.6 | | | | | | | | | | | | | | | 9, 402, 704 |
| 21 - 35 FATHOMS: | | | | | | | | | | | | | | | | | |
| BROWN | | | | | | | | | | | | | | | | | |
| PINK | | | | | | | | | | | | | | | | | |
| WHITE | | | | | | | | | | | | | | | | | |
| TOTAL | 411.7 | 4, 583.5 | | | | | | | | | | | | | | | 2, 857, 648 |
| TOTAL HIGH SEAS OFF OREGON-CAMPECHE - CARIBBEAN SEA - SOUTH OF LATITUDE 21° NORTH: | 1, 553.7 | 19, 312.1 | | | | | | | | | | | | | | | 12, 334, 003 |
| 0 - 5 FATHOMS: | | | | | | | | | | | | | | | | | |
| BROWN | | | | | | | | | | | | | | | | | |
| WHITE | | | | | | | | | | | | | | | | | |
| TOTAL, CARIBBEAN SEA - SOUTH OF LATITUDE 21° NORTH | 1.0 | 1.0 | | | | | | | | | | | | | | | 500 |
| ATLANTIC OCEAN: | | | | | | | | | | | | | | | | | |
| 6 - 15 FATHOMS, WHITE | 14.0 | 9.8 | | | | | | | | | | | | | | | 5, 083 |
| TOTAL, ATLANTIC COAST | 14.0 | 9.8 | | | | | | | | | | | | | | | 5, 083 |
| GRAND TOTAL | 133, 547.4 | 165, 712.4 | | | | | | | | | | | | | | | 6, 895, 543 |

NOTE:--THESE DATA REPRESENT THE CATCHES OF VESSELS COMPLETING TRIPS DURING THE YEAR, REGARDLESS OF WHEN LANDINGS OCCURRED. CONSEQUENTLY, THE DATA ARE NOT DIRECTLY COMPARABLE WITH THE DATA FOR THE GULF OF MEXICO AND THE CARIBBEAN SEA. THE NUMBER OF DAYS BY WHICH ADDITIONAL TABULATIONS CONCERNING THE GULF OF MEXICO CATCH OF SHRIMP IN MORE DETAIL BY AREA, DEPTH, SIZE, AND FISHING EFFORT MAY BE OBTAINED UPON REQUEST FROM THE BUREAU OF COMMERCIAL FISHERIES, U. S. FISH AND WILDLIFE SERVICE, WASHINGTON 25, D. C.

SECTION 7 - PACIFIC COAST FISHERIES ²⁶⁹

The yield of the commercial fisheries of the Pacific Coast States (Alaska, Washington, Oregon, and California) in 1961 amounted to 1.2 billion pounds valued at \$128 million. Landings were 122 million pounds and \$16 million larger than in 1960. Landings of bonito, jack mackerel, Pacific mackerel, salmon, tuna, king crab, shrimp, and squid were up substantially; while anchovies and halibut were up slightly. Catches of herring, rockfishes, sablefish, Pacific sardines, and Dungeness crabs were considerably smaller than in 1960.

The Pacific Coast accounted for 23 percent of the volume and 35 percent of the value of the total United States landings. It was second only to the Gulf Coastal States in quantity and led all other areas in value. California was first in volume on the Pacific Coast with a catch of 598 million pounds (51 percent) valued at \$56 million (44 percent). Alaska (413 million pounds valued at \$46 million) was second with 35 percent of the volume and 36 percent of the value, followed by Washington, with landings of 120 million pounds valued at \$19 million. Oregon accounted for the remaining 51 million pounds and \$7 million.

There were 33,281 fishermen engaged in Pacific Coast fisheries in 1961. Fishing craft consisted of 4,740 vessels of 5 net tons and over, 11,977 motor boats, and 443 other boats. The fishing craft ranged from small one-man boats to a large tuna purse seiner of 701 gross tons.

Fish taken on the high seas off coasts of foreign countries by Pacific Coast fishermen amounted to 306.5 million pounds or 26 percent of the total catch. Tuna taken off Central and South America accounted for 23 percent of the total production. Other important species taken off foreign coasts were bottomfish, halibut, and salmon caught off British Columbia. In 1961, Pacific Coast fishermen ranged further than those of any other area in their search for fish, operating from the Bering Sea to waters off Peru.

There were 558 wholesale and manufacturing fishery firms operated in the Pacific Coast States during 1961--43 more than in the previous year. The firms gave employment to 24,855 persons--a slight increase over 1960.

The value of processed fishery products on the Pacific Coast amounted to \$357 million in 1961--14 percent or \$44 million more than in 1960. California led all other Pacific Coast States with 51 percent of the total followed by Alaska, with 32 percent. Notable gains were registered in the production of fish fillets and steaks, canned fish and shellfish, and salted fish. Alaska showed the greatest percentage gain with the value of its processed products 32 percent greater than in the previous year, due primarily to increased packs of canned salmon, shrimp, and crabs. Washington was next with a 31 percent increase, principally the result of a larger pack of locally caught salmon and a substantial gain in the quantity of Alaska-caught fish canned in the State.

The total pack of canned fishery products in the four States amounted to over 20 million cases valued at \$300 million--about 320,000 cases and \$38 million above the 1960 production. Packs of salmon, mackerel, king and Dungeness crab meat, and shrimp were higher than in 1960. Canned sardines, clams, and tuna were produced in lesser quantities.

Despite an increase in the average price of meal from \$92 per ton in 1960 to \$106 in 1961, the total value declined 15 percent in 1961. This was caused principally by the reduced production of herring in Alaska, where, despite an extension of the season, production dropped considerably below the previous year's total.

The Pacific Coast tuna fishery improved somewhat over the previous year, due primarily to the greater number of purse seiners which entered the fishery in 1961. Landings increased to 311 million pounds from 288 million pounds in 1960. Catches of yellowfin, skipjack, and bluefin were higher, while the volume of albacore was less. About 88 percent of the catch of tuna was taken on the high seas in waters off Central and South America.

PACIFIC COAST FISHERIES

The Pacific tuna industry, stimulated by the success of converted seiners and the rapidly increasing consumption of canned tuna, continued to display spectacular economic progress in 1961. The California tuna fleet, changed by conversion from a predominantly clipper fleet fishing with hook and line, to a purse seine fleet fishing with huge nets, continued to take large quantities of yellowfin tuna. Research scientists took the position early in 1961 that this species was being overexploited--resulting in the purse seine fleet diverting some effort to fishing for skipjack. In 1961, the Inter-American Tropical Tuna Commission recommended that a catch limit be placed on yellowfin in order to maintain stocks at a level that would permit the maximum sustainable yield. The prices paid to fishermen increased four times during the year, and the prospects were for another raise as the year ended.

Albacore fishing off the coasts of Oregon and Washington fell off sharply in 1961, dropping from 5 million pounds in 1960 to less than 4 million pounds in 1961. The prices paid fishermen were considerably higher than in the previous year.

In California, the situation was the same. The albacore catch (29 million pounds) was 17 percent lower than that of 1960.

The albacore season began early, with catches running higher than the previous year. However, the fish, which usually move north as the season progresses, began their migration earlier than usual, and they apparently moved out to sea beyond the reach of many of the albacore boats.

Tuna canners also did well in 1961. There were few labor disputes or fleet tie-ups. The United States consumption of canned tuna, stimulated by intensive advertising and promotion, continued to grow, with apparent consumption reaching 2.1 pounds per capita. The 1961 United States pack of tuna reached a record 15.8 million standard cases valued at \$189.2 million. The tuna pack in the Pacific Coast States totaled 11.8 million standard cases valued at \$141.1 million, accounted for 75 percent of the volume and 75 percent of the value of the total domestic pack of these fish.

The 1961 Pacific salmon catch totaled 310 million pounds valued at \$52 million, which made this the most valuable species taken by U.S. fishermen in 1961. Shrimp had been the most valuable item since 1951. The catch of salmon was favorable in nearly all sections of the Pacific Coast from Alaska to California. Alaska landings (265 million pounds) were the largest since 1956 and their value (\$36 million) was a record. In Washington, the catch was up 81 percent over the previous year. Oregon and California landings were also considerably above the 1960 level. The pack of canned salmon increased from 2.8 million cases in 1960 to 3.7 million cases in 1961. In Alaska, the pack was up 641,000 cases, while in Washington, Oregon, and California, it increased 221,600 cases.

The catch of red salmon in Western Alaska was the best since 1948, with the total run coming very close to the 22-million-fish estimate set by scientists of the Alaska Department of Fish and Game, the Fisheries Research Institute, and the Bureau of Commercial Fisheries. The size of the 1961 red salmon averaged 5.9 pounds in Western Alaska compared with 4.8 pounds in 1960.

Approximately 11.9 million red salmon were taken in Bristol Bay in 1961, with the Naknek-Kvichak fishery producing nearly 8.5 million and the Egegik, about 2.4 million fish. The balance came from the Ugashik, Nushagak, and Togiak fisheries. The industry was fully prepared to accommodate the expected large catches, and they were handled smoothly despite the large volume. The cold weather during the main run contributed to protecting the excellent quality of the big reds.

In Central Alaska, salmon fishing along the Alaska Peninsula and Kodiak Island was about the same as in the previous year. However, the completely unexpected run of pink salmon to Prince William Sound took the industry by surprise.

In Southeastern Alaska, the runs of pinks and chums in Icy Strait and adjacent waters were also somewhat of a surprise, both in the number of fish and the duration of the runs. Vessels converged on the scene as soon as the magnitude of the run became known. Scows spread the catch to distant canneries, making the operation more profitable.

The 1961 whaling season was the most successful since whaling was revived on the Pacific Coast in 1956. During the 1961 season, which extended from April 16 through October 15, a total of 343 whales was taken--72 more than in the previous year. Gains were registered in the number of blue, bottlenose, sei, and sperm whales, while fins and humpbacks were taken in fewer numbers than the previous year.

Fin whales, economically the most important species, were taken in larger numbers early in the season, while feed was abundant on the grounds, but disappeared early in August, thus reducing the season's take to 20 less than the previous year. Perhaps the most unusual feature was the appearance of large numbers of female sperm whales in the 1961 catch. The females of this species usually remain in warmer waters and are not often encountered in great numbers on the grounds fished by the Pacific fleet. However, several times during the year, the boats encountered harems containing a large number of females. Although most female sperm whales fall below the 35-foot legal size limit, sufficient numbers of larger females were found to boost the total take for this species to 88 more than were taken the previous year. The catch of these whales resulted in a large increase in the production of sperm oil.

The halibut fishery experienced a successful year despite a small decline in the total catch by Canadian and United States vessels, a situation that could have resulted from changes in the seasons rather than scarcity of fish or market conditions. United States fishermen took 53 million pounds (round weight basis) in 1961, compared with 51 million the previous year, and reversed a trend of the past few years in which Canadian fishermen had been increasing their percentage take each year.

At the Tokyo Conference of the International North Pacific Fisheries Commission, both the United States and Canada urged Japan not to fish otter trawls south and east of the Aleutian Islands and the Alaska Peninsula until the studies being made by the International Pacific Halibut Commission could be completed. The object of this research is to determine the effects of trawling on the stocks of halibut in these waters.

With the opening of the 1961 season, the Halibut Commission divided Area 3B into two sections--3B North and 3B South--each with a different opening date. Area 3B North was designated as that section north of the Aleutian Chain of the Alaska Peninsula, with an opening date of April 10. Area 3B South was designated as that portion of 3B south of the Aleutian Chain of the Alaska Peninsula, with an opening date of April 25. Both areas closed on October 1--some two weeks earlier than in 1960.

These changes by the Halibut Commission were designed to shift fishing pressure from stocks that had been consistently fished for many years under the split season arrangement and to encourage fishing in the area north of the Alaska Peninsula. To compensate for this adjustment, the quotas were raised in some areas. There were no changes in rules for layup between halibut fishing trips in 1961, which provide for an 8-day layup between trips beginning at noon following arrival at port.

One of the more important developments in the 1961 fishery was the increase in landings in Prince Rupert, British Columbia, and at Ketchikan, Alaska, and a decline in landings at Seattle. The three top-ranking halibut ports in 1961 were Prince Rupert, British Columbia; Seattle, Washington; and Ketchikan, Alaska; in that order.

PACIFIC COAST FISHERIES

Although a price dispute threatened to delay the opening of the season, fishing began on time and continued throughout the season without interruption from labor or price difficulties.

Ex-vessel prices remained good throughout the season. This no doubt resulted from the landings being split among more ports, thus creating more competition. Even though landings were less, increased prices resulted in a gain of \$2.2 million for United States fishermen compared with the previous year.

The 1961 Pacific and jack mackerel catch of 141.7 million pounds was 27 percent greater than in the previous year, and the best since 1957. During most of the year, jack mackerel were so abundant in southern California waters that cannery set nightly limits of from 20 to 40 tons per vessel for virtually the entire season. Landings would doubtlessly have been much higher had it not been for these limits.

Shrimp production took a phenomenal jump in 1961, with a 68-percent increase over 1960. Alaska and Oregon registered large increases--more than doubling the 1960 total. Prices, however, did not keep pace, except in Alaska, and the total value of this fishery was only 41 percent above the previous year's total. Despite a slight decline in the California catch, a new record per hour of fishing was established in that fishery.

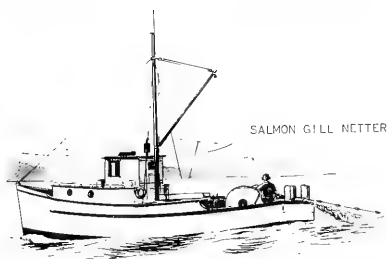
Chiefly responsible for the increase in the Pacific shrimp catch was the failure of the Gulf of Mexico shrimp fishery, resulting in the inability of the industry to adequately supply the demand, even with the increased imports. Canned shrimp production established a record for the Pacific area with a pack of nearly 139,000 standard cases--over 59,500 standard cases more than in 1960. Another important development contributed to the improvement of the Pacific Coast shrimp industry; namely, the development of shrimp logs for use by the breeding industry. As a result of reduced supplies from usual sources, a breeding firm developed the logs, and by the end of the year had marketed considerable quantities.

King crab production established a record in 1961, both in total landings and in the canned pack. The catch was not made without sacrifices, as 9 craft and 13 fishermen were lost. What may have been a record trip of king crabs was landed by the vessel Nautilus at Port Wakefield, Alaska, when the vessel landed 10,000 crabs in December. Landings of Dungeness crabs declined over the entire range, and prices increased considerably in most areas. Cannery found themselves outbid for live crabs as the fresh market absorbed most of the catch.

Oyster production dropped nearly 1 million pounds (8 percent) below the 1960 total. The principal cause of the decline was believed to be the curtailed demand by the canning industry, caused by imports of lower priced canned Japanese oysters. In an effort to stay in the highly competitive market, cannery produced oyster stew in greater quantity than in any year except 1960.

The Bureau acknowledges the assistance of the following organizations in the collection of the data appearing in this section: The Washington Department of Fisheries, the Oregon Fish Commission, the California Department of Fish and Game, and the Alaska Department of Fish and Game.

Condensed summary data on the operating units and catch by States for the Pacific Coast fisheries appearing on the following pages have been previously published in Current Fishery Statistics No. 3122. Additional data on many aspects of the Pacific Coast fisheries appear in daily, monthly, and annual reports published by the Bureau's Fishery Market News Service offices in San Pedro, California and Seattle, Washington. Specific data on several of the major fisheries of the Pacific Coast may be found in Section 12 of this publication.

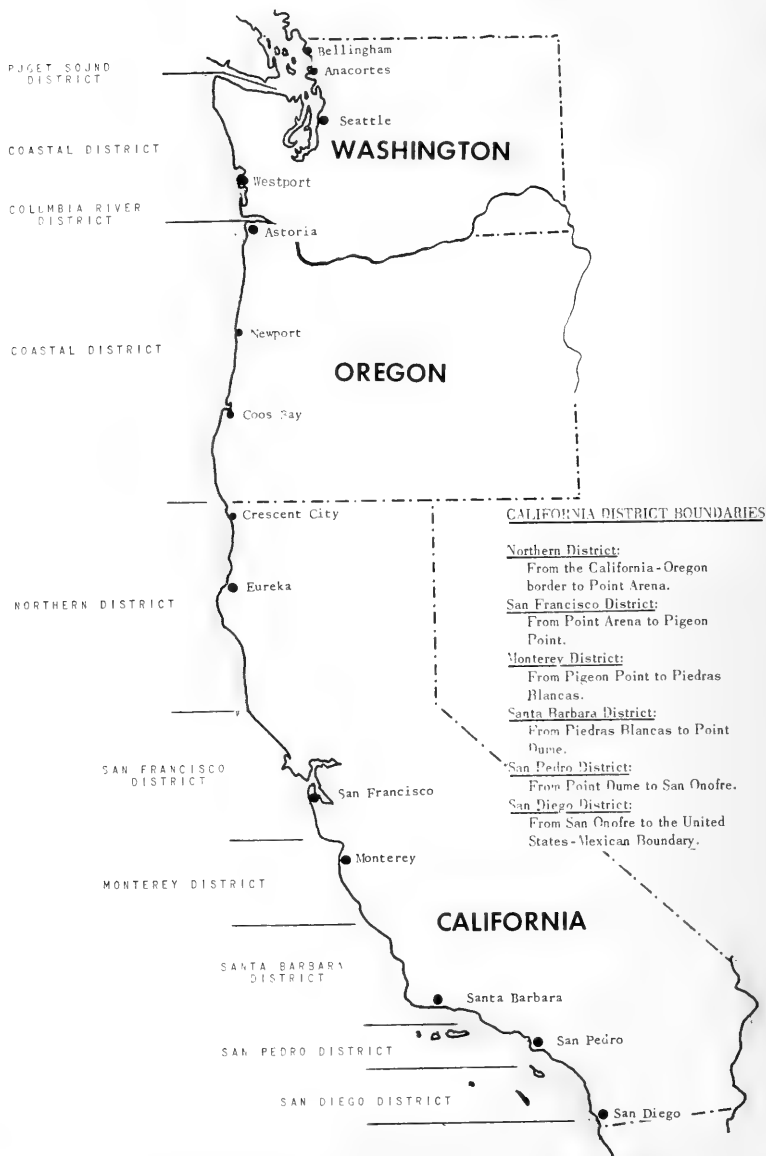


PACIFIC COAST STATES



PACIFIC COAST FISHERIES

PACIFIC COAST STATES - Continued



PACIFIC COAST FISHERIES

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SECTIONAL SUMMARIES SUMMARY OF CATCH, 1961

(MILLIONS OF POUNDS AND MILLIONS OF DOLLARS)

| STATE | FISH | | SHELLFISH | | WHALE PRODUCTS | | TOTAL | |
|----------------------|----------|-------|-----------|-------|----------------|-------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| ALASKA | 349 | 41 | 65 | 5 | - | - | 414 | 46 |
| WASHINGTON | 102 | 16 | 18 | 3 | - | - | 120 | 19 |
| OREGON | 40 | 5 | 11 | 2 | (1) | (1) | 51 | 7 |
| CALIFORNIA | 560 | 51 | 26 | 4 | 12 | 1 | 598 | 56 |
| TOTAL | 1,051 | 113 | 120 | 14 | 12 | 1 | 1,183 | 128 |

1/ LESS THAN 500,000 POUNDS OR \$500,000.

SUMMARY OF OPERATING UNITS, 1961

| ITEM | ALASKA | WASHINGTON | OREGON | CALIFORNIA | TOTAL, EXCLUSIVE OF DUPLICATION |
|---|---------|------------|--------|------------|---------------------------------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | |
| ON VESSELS | 6,746 | 4,481 | 1,162 | 5,596 | 15,616 |
| ON BOATS AND SHORE | 8,873 | 5,019 | 1,435 | 2,439 | 17,665 |
| TOTAL | 15,619 | 9,500 | 2,597 | 8,035 | 33,281 |
| VESSELS, MOTOR, GROSS TONNAGE | 2,100 | 1,380 | 558 | 1,506 | 4,740 |
| BOATS: | 41,931 | 33,269 | 12,493 | 73,873 | 138,610 |
| MOTOR | 6,778 | 2,539 | 1,077 | 1,660 | 11,977 |
| OTHER | - | 438 | 5 | - | 443 |
| GEAR: | | | | | |
| HAUL SEINES | - | 152 | 3 | 13 | 166 |
| LENGTH, YARDS | - | 11,750 | 300 | 1,450 | 13,500 |
| PURSE SEINES AND LAMPARA NETS: | | | | | |
| HERRING | 20 | 4 | - | - | 24 |
| LENGTH, YARDS | 9,680 | 1,735 | - | - | 11,415 |
| MACKEREL | - | - | - | 100 | 100 |
| LENGTH, YARDS | - | - | - | 48,780 | 48,780 |
| SALMON | 1,246 | 324 | - | - | 1,446 |
| LENGTH, YARDS | 496,966 | 171,720 | - | - | 608,046 |
| SARDINE | - | - | - | 87 | 87 |
| LENGTH, YARDS | - | - | - | 43,550 | 43,550 |
| SQUID | - | - | - | 18 | 18 |
| LENGTH, YARDS | - | - | - | 6,080 | 6,080 |
| TUNA | - | - | - | 126 | 126 |
| LENGTH, YARDS | - | - | - | 90,250 | 90,250 |
| OTHER | - | - | - | 41 | 41 |
| LENGTH, YARDS | - | - | - | 12,410 | 12,410 |
| BEAM TRAWLS, SHRIMP | 18 | 1 | - | 12 | 31 |
| YARDS AT MOUTH | 202 | 8 | - | 84 | 294 |
| OTTER TRAWLS: | | | | | |
| CRAB, KING | 1 | - | - | - | 1 |
| YARDS AT MOUTH | 20 | - | - | - | 20 |
| FISH | 2 | 122 | 53 | 72 | 236 |
| YARDS AT MOUTH | 30 | 2,678 | 1,185 | 1,923 | 5,528 |
| SHRIMP | 16 | 8 | 11 | - | 34 |
| YARDS AT MOUTH | 255 | 152 | 203 | - | 595 |
| BRUSH WEIRS | - | 1 | - | - | 1 |
| POUND NETS | - | 6 | - | - | 6 |
| FLOATING TRAPS | 11 | - | - | - | 11 |
| POTS AND TRAPS: | | | | | |
| CRAB: | | | | | |
| DUNGENESE | 7,965 | 24,415 | 32,775 | 30,555 | 90,550 |
| KING | 10,076 | - | - | - | 10,076 |
| CRAWFISH | - | 75 | 560 | - | 635 |
| FISH | - | - | - | 150 | 150 |
| LOBSTER, SPINY | - | - | - | 10,645 | 10,645 |
| OCTOPUS | - | 100 | - | - | 100 |
| SHRIMP | 30 | 140 | - | - | 170 |

(CONTINUED ON NEXT PAGE)

PACIFIC COAST FISHERIES

SUMMARY OF OPERATING UNITS, 1961 - Continued

| ITEM | ALASKA | WASH- INGTON | OREGON | CALI- FORNIA | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|-------------------------------------|-----------|-----------------|-----------|-----------------|--|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| GEAR - CONTINUED: | | | | | |
| GILL NETS: | | | | | |
| ANCHOR, SET OR STAKE: | | | | | |
| SALMON | 2,047 | 437 | 118 | - | 2,602 |
| SQUARE YARDS | 1,525,386 | 104,150 | 47,200 | - | 1,677,736 |
| CHARK | - | 7 | - | - | 7 |
| SQUARE YARDS | - | 7,000 | - | - | 7,000 |
| DRIFT: | | | | | |
| BARRACUDA | - | - | - | 42 | 42 |
| SQUARE YARDS | - | - | - | 115,600 | 115,600 |
| SALMON | 3,043 | 1,270 | 672 | - | 4,893 |
| SQUARE YARDS | 3,921,576 | 6,080,300 | 1,982,500 | - | 11,776,005 |
| SEA BASS | - | - | - | 60 | 60 |
| SQUARE YARDS | - | - | - | 177,000 | 177,000 |
| OTHER | - | 2 | 75 | 5 | 62 |
| SQUARE YARDS | - | 1,600 | 67,500 | 17,100 | 66,400 |
| TRAMMEL NETS: | | | | | |
| SQUARE YARDS | - | - | - | 3 | 3 |
| LINES: | | | | | |
| HAND: | | | | | |
| ROCKFISHES | - | 9c | - | 209 | 305 |
| HOOKS | - | 192 | - | 418 | 610 |
| TUNA: | | | | | |
| ALBACORE | - | - | - | 733 | 733 |
| HOOKS | - | - | - | 733 | 733 |
| YELLOWFIN AND SKIPJACK | - | - | - | 439 | 439 |
| HOOKS | - | - | - | 439 | 439 |
| TROLL: | | | | | |
| SALMON | 6,036 | 5,936 | 3,366 | 9,474 | 22,662 |
| HOOKS | 37,251 | 23,696 | 14,334 | 37,696 | 104,757 |
| TUNA, ALBACORE | - | 906 | 1,683 | 7,614 | 9,437 |
| HOOKS | - | 906 | 1,663 | 7,614 | 9,437 |
| OTHER | - | - | - | 144 | 144 |
| HOOKS | - | - | - | 144 | 144 |
| LONG OR SET WITH HOOKS | 9,179 | 4,551 | 185 | 762 | 11,235 |
| HOOKS | 746,528 | 371,359 | 15,848 | 70,360 | 938,801 |
| DIP, BRAIL, OR SCOOP NETS | 10 | 237 | 24 | 176 | 447 |
| REEF NETS | - | 100 | - | - | 100 |
| WHEELS | 6 | - | - | - | 6 |
| HARPOONS: | | | | | |
| WHALE | - | - | 1 | 5 | 6 |
| OTHER | - | - | - | 62 | 62 |
| DREDGES: | | | | | |
| CLAM | - | 3 | - | - | 3 |
| YARDS AT MOUTH | - | 3 | - | - | 3 |
| OYSTER: | | | | | |
| COMMON | - | 70 | 6 | 3 | 79 |
| YARDS AT MOUTH | - | 140 | 12 | 3 | 155 |
| SUCTION | - | 1 | - | 1 | 2 |
| TONGS, OYSTER | - | - | - | 25 | 25 |
| SHOVELS | 394 | 1,323 | 194 | 12 | 1,923 |
| DIVING OUTFITS, ABALONE | - | - | - | 129 | 129 |



PACIFIC COAST FISHERIES

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CATCH BY STATES, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | ALASKA | | WASHINGTON | | OREGON | |
|---------------------------------|----------|--------|------------|--------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH | | | | | | |
| CARP | - | - | 798 | 10 | - | - |
| COD | - | - | 2,963 | 145 | 104 | 5 |
| DOLLY VARDEN TROUT | 12 | 1 | - | - | - | - |
| FLOUNDERS: | | | | | | |
| "SOLE" | - | - | 15,294 | 960 | 12,861 | 694 |
| UNCLASSIFIED | - | - | 1,188 | 57 | 602 | 22 |
| HAKE | - | - | 158 | 1 | - | 1 |
| HALIBUT | 33,423 | 4,888 | 19,370 | 3,447 | 441 | 72 |
| HERRING, SEA | 49,465 | 559 | 3,607 | 135 | 18 | 5 |
| LINGCOD | - | - | 5,821 | 291 | 738 | 33 |
| OCEAN PERCH | - | - | 7,871 | 393 | 4,572 | 201 |
| PERCH | - | - | 177 | 22 | 4 | (2) |
| RATFISH | - | - | 1,130 | 8 | - | - |
| ROCKFISHES | 22 | 1 | 7,157 | 289 | 6,872 | 260 |
| SABLEFISH | 1,337 | 160 | 3,181 | 397 | 568 | 50 |
| SALMON: | | | | | | |
| CHINOOK OR KING | 8,541 | 2,243 | 6,010 | 2,443 | 4,310 | 1,767 |
| CHUM OR KETA | 46,121 | 3,846 | 1,989 | 404 | 29 | 4 |
| PINK | 103,537 | 10,115 | 4,915 | 836 | (2) | (2) |
| RED OR SOCKEYE | 95,229 | 17,539 | 8,309 | 2,742 | 106 | 43 |
| SILVER OR COHO | 11,386 | 1,998 | 8,675 | 2,584 | 2,603 | 765 |
| TOTAL SALMON | 264,814 | 35,741 | 29,898 | 9,009 | 7,048 | 2,579 |
| SEA BASS, WHITE | - | - | - | - | 1 | (2) |
| SHAD | - | - | 167 | 15 | 760 | 102 |
| SHARKS: | | | | | | |
| GRAYFISH | - | - | 791 | 4 | 50 | (2) |
| SOUPFIN | - | - | 1 | (2) | (2) | (2) |
| TOTAL SHARKS | - | - | 792 | 4 | 50 | (2) |
| SKATES | - | - | 500 | 2 | 332 | 8 |
| SMELT: | | | | | | |
| EULACHON | - | - | 872 | 118 | 181 | 27 |
| SURF OR SILVER | - | - | 258 | 23 | 2 | (2) |
| STEELHEAD TROUT | 14 | 3 | 368 | 99 | 543 | 138 |
| STRIPED BASS | - | - | - | - | 33 | 4 |
| STURGEON | - | - | 330 | 43 | 208 | 30 |
| SUCKERS | - | - | 27 | (2) | - | - |
| TOMCOD | - | - | 58 | 1 | - | - |
| TUNA, ALBACORE | - | - | 456 | 85 | 3,251 | 591 |
| TOTAL FISH | 349,087 | 41,353 | 102,441 | 15,554 | 39,247 | 4,822 |
| SHELLFISH | | | | | | |
| CRABS: | | | | | | |
| DUNGESS | 4,591 | 442 | 7,109 | 1,075 | 9,288 | 1,479 |
| KING | 43,412 | 3,914 | - | - | - | - |
| TANNER | 7 | 1 | - | - | - | - |
| TOTAL CRABS | 48,010 | 4,357 | 7,109 | 1,075 | 9,288 | 1,479 |
| CRAWFISH, FRESH-WATER | - | - | 2 | 1 | 21 | 6 |
| SHRIMP | 15,980 | 639 | 1,463 | 131 | 1,464 | 119 |
| CLAMS: | | | | | | |
| COCKLE | 2 | 1 | - | - | - | - |
| HARD | - | - | 401 | 167 | - | 8 |
| RAZOR | 389 | 120 | 281 | 133 | 16 | 5 |
| MIXED | - | - | - | - | 10 | 5 |
| TOTAL CLAMS | 391 | 121 | 682 | 300 | 26 | 13 |
| OCTOPUS | - | - | 25 | 3 | (2) | (2) |
| OYSTERS, MARKET: | | | | | | |
| PACIFIC | - | - | 8,620 | 1,557 | 329 | 72 |
| WESTERN | - | - | 38 | 95 | - | - |
| TOTAL OYSTERS | - | - | 8,658 | 1,652 | 329 | 72 |

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PACIFIC COAST FISHERIES

CATCH BY STATES, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | ALASKA | | WASHINGTON | | OREGON | |
|--------------------------------|----------|--------|------------|--------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| SHELLFISH - CONTINUED | | | | | | |
| SCALLOPS, BAY | - | - | (2) | {2} | - | - |
| SQUID | - | - | 1 | {2} | - | - |
| TOTAL SHELLFISH | 64,381 | 5,117 | 17,940 | 3,162 | 11,128 | 1,689 |
| WHALE PRODUCTS: | | | | | | |
| MEAL | - | - | - | - | 34 | 2 |
| MEAT | - | - | - | - | 66 | 4 |
| OIL: | | | | | | |
| SPERM | - | - | - | - | 30 | 3 |
| WHALE | - | - | - | - | 9 | (2) |
| SOLUBLES | - | - | - | - | 28 | 1 |
| TOTAL WHALE PRODUCTS | - | - | - | - | 167 | 10 |
| GRAND TOTAL | 413,468 | 46,470 | 120,381 | 18,716 | 50,542 | 6,521 |

| SPECIES | CALIFORNIA 1/ | | TOTAL | |
|------------------------------|---------------|-------|----------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH | | | | |
| ANCHOVIES | 7,712 | 110 | 7,712 | 110 |
| BARRACUDA | 709 | 107 | 709 | 107 |
| BONITO | 8,513 | 218 | 8,513 | 218 |
| CABEZONE | 5 | (2) | 5 | (2) |
| CABRILLA | 11 | 2 | 11 | 2 |
| CARP | 339 | 15 | 1,137 | 25 |
| COD | - | - | 3,067 | 150 |
| DOLLY VARDEN TROUT | - | - | 12 | 1 |
| FLOUNDERS: | | | | |
| ARROWTOOTH HALIBUT | 61 | 3 | 61 | 3 |
| CALIFORNIA HALIBUT | 3/655 | 3/151 | 655 | 151 |
| SAND DABS | 563 | 38 | 563 | 38 |
| "SOLE" | 16,184 | 1,198 | 44,339 | 2,852 |
| UNCLASSIFIED | 3/315 | 3/17 | 2,105 | 96 |
| FLYING FISH | 33 | 4 | 33 | 4 |
| GROUPERS | 202 | 43 | 202 | 43 |
| HAKE | 3 | (2) | 219 | 2 |
| HALIBUT | 6 | - | 6 | 1 |
| HALIBUT | 4 | 1 | 53,238 | 8,408 |
| HARDHEAD | 99 | 20 | 99 | 20 |
| HERRING, SEA | 1,401 | 31 | 54,491 | 730 |
| KING CROAKER | 889 | 39 | 889 | 39 |
| LINGCOD | 1,440 | 104 | 7,999 | 428 |
| MACKEREL: | | | | |
| JACK | 97,606 | 2,025 | 97,606 | 2,025 |
| PACIFIC | 44,110 | 956 | 44,110 | 956 |
| OCEAN PERCH | | | | |
| OPALEYE | 2 | (2) | 2 | (2) |
| PERCH | 118 | 19 | 299 | 41 |
| POMPANO | 11 | 3 | 11 | 3 |
| RATFISH | - | - | 1,130 | 8 |
| ROCK BASS | 3 | 1 | 3 | 1 |
| ROCKFISHES | 10,831 | 587 | 24,882 | 1,137 |
| SABLEFISH | 1,618 | 86 | 6,704 | 693 |
| SALMON: | | | | |
| CHINOOK OR KING | 8,101 | 4,510 | 26,962 | 10,963 |
| CHUM OR KETA | - | - | 48,139 | 4,254 |
| PINK | - | - | 103,452 | 10,951 |
| RED OR SOCKEYE | - | - | 103,644 | 20,324 |
| SILVER OR COHO | 537 | 188 | 23,201 | 5,535 |
| TOTAL SALMON | 8,638 | 4,698 | 310,398 | 52,027 |
| SARDINE, PACIFIC | | | | |
| SCULPIN | 43,169 | 1,146 | 43,169 | 1,146 |
| SEA BASS: | | | | |
| BLACK | 340 | 56 | 340 | 56 |
| WHITE | 694 | 217 | 695 | 217 |
| SHAD | - | - | 927 | 117 |
| SHARKS: | | | | |
| GRAYFISH | - | - | 841 | 4 |
| SOUPFIN | - | - | 1 | (2) |
| UNCLASSIFIED | 624 | 60 | 624 | 60 |
| TOTAL SHARKS | 624 | 60 | 1,466 | 64 |

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PACIFIC COAST FISHERIES

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CATCH BY STATES, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | CALIFORNIA 1/ | | TOTAL | |
|---------------------------------|---------------|--------|-----------|------------|
| | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH - CONTINUED | | | | |
| SHEEPSHEAD | 13 | 1 | 13 | 1 |
| SIERRA | 1 | (2) | 1 | (2) |
| SKATES | 398 | 4 | 1,230 | 14 |
| SMELTS: | | | | |
| EULACHON | - | - | 1,053 | 145 |
| SURF OR SILVER | 491 | 25 | 751 | 48 |
| SPLITTAIL | 1 | (2) | 1 | (2) |
| STEELHEAD TROUT | - | - | 925 | 240 |
| STRIPED BASS | - | - | 33 | 4 |
| STURGEON | - | - | 538 | 73 |
| SUCKERS | - | - | 27 | (2) |
| SWORDFISH | 369 | 162 | 369 | 162 |
| TOMCOD | - | - | 58 | 1 |
| TUNA: | | | | |
| ALBACORE | 29,123 | 5,167 | 32,630 | 5,863 |
| BLUEFIN | 20,693 | 7,705 | 20,693 | 2,705 |
| SKIPJACK | 65,403 | 7,219 | 65,403 | 7,219 |
| YELLOWFIN | 191,854 | 24,439 | 191,854 | 24,439 |
| TOTAL TUNA | 307,263 | 39,550 | 310,970 | 40,226 |
| TURBOT | | | | |
| WAHOO | 71 | 4 | 71 | 4 |
| WHITEBAIT | 9 | 3 | 9 | 3 |
| YELLOWTAIL | 336 | 25 | 336 | 25 |
| UNCLASSIFIED: | | | | |
| FOR FOOD | 28 | 2 | 28 | 2 |
| BAIT AND ANIMAL FOOD | 3,777 | 75 | 3,777 | 75 |
| TOTAL FISH | 560,073 | 51,842 | 1,050,648 | 113,571 |
| SHELLFISH | | | | |
| CRABS: | | | | |
| DUNGENESS | 11,711 | 1,981 | 32,699 | 4,977 |
| KING | - | - | 43,412 | 3,914 |
| ROCK | 152 | 12 | 152 | 12 |
| TANNER | - | - | 7 | 1 |
| TOTAL CRABS | 11,863 | 1,993 | 76,270 | 8,904 |
| CRAWFISH, FRESH-WATER | | | | |
| LOBSTER, SPINY | 419 | 284 | 419 | 284 |
| SHRIMP | 2,005 | 190 | 20,912 | 1,079 |
| ABALONE | 910 | 607 | 910 | 607 |
| CLAMS: | | | | |
| COCKLE | - | - | 2 | 1 |
| HARD | 2 | 3 | 403 | 170 |
| RAZOR | - | - | 686 | 261 |
| MIXED | - | - | 10 | 5 |
| TOTAL CLAMS | 2 | 3 | 1,101 | 437 |
| OCTOPUS | | | | |
| 3 | (2) | 28 | 3 | |
| OYSTERS, MARKET: | | | | |
| EASTERN | 15 | 5 | 15 | 5 |
| PACIFIC | 1,205 | 291 | 10,154 | 1,920 |
| WESTERN | - | - | 38 | 95 |
| TOTAL OYSTERS | 1,220 | 296 | 10,207 | 2,020 |
| SCALLOPS, BAY | | | | |
| SQUID | 10,286 | 231 | 10,287 | (2) 231 |
| TOTAL SHELLFISH | 26,708 | 3,604 | 120,157 | 13,572 |
| WHALE PRODUCTS: | | | | |
| MEAL | 3,262 | 201 | 3,316 | 203 |
| MEAT | 4,944 | 397 | 5,010 | 401 |
| OIL: | | | | |
| SPERM | 666 | 60 | 696 | 63 |
| WHALE | 2,765 | 179 | 2,774 | 179 |
| SOLUBLES | - | - | 28 | 1 |
| TOTAL WHALE PRODUCTS | 11,657 | 837 | 11,624 | 847 |
| GRAND TOTAL | 596,438 | 56,283 | 1,182,829 | 127,990 |

1/ INCLUDES THE CATCH TAKEN OFF LATIN AMERICA.

2/ LESS THAN 500 POUNDS OR \$500.

3/ SOME HALIBUT MAY BE INCLUDED WITH "CALIFORNIA HALIBUT" AND "UNCLASSIFIED FLOUNDERS."

NOTE:—DATA ON THE VOLUME OF FISH LANDED IN CALIFORNIA ARE SHOWN IN WEIGHTS AS LANDED, WHILE THOSE FOR WASHINGTON AND OREGON ARE IN ROUND WEIGHT. ALASKA DATA INCLUDE THE CATCH OF HALIBUT, SABLEFISH, AND ROCKFISHES LANDED BY U.S. VESSELS AT BRITISH COLUMBIA PORTS.

PACIFIC COAST FISHERIES

MANUFACTURED FISHERY PRODUCTS, 1961

| ITEM | ALASKA | | WASHINGTON | |
|--|----------------|-----------|------------|-----------|
| | QUANTITY | VALUE | QUANTITY | VALUE |
| COD: | | | | |
| FILLETS: | | | | |
| FRESH | POUNDS | - | 658,018 | \$139,147 |
| FROZEN | DO | - | 194,713 | 46,719 |
| SALTED (WHOLE AND BONED) | DO | - | 5,752 | 2,905 |
| DOLLY VARDEN TROUT, SMOKED | DO | 50 | - | - |
| FLOUNDER FILLETS: | | | | |
| FRESH | DO | - | 2,153,232 | 748,394 |
| FROZEN | DO | - | 1,569,022 | 526,600 |
| HALIBUT: | | | | |
| FILLETS, STEAKS, AND PORTIONS, FRESH AND FROZEN | DO | - | 7,447,821 | 3,814,484 |
| CHEEKS, FROZEN | DO | 19,749 | 6,525 | - |
| SMOKED AND KIPPERED, CANNED | STANDARD CASES | 1 | 50 | - |
| HERRING, SEA: | | | | |
| MEAL | TONS | 3,810 | 444,530 | (1) |
| OIL | GALLONS | 727,520 | 379,710 | (1) |
| LINGCOD FILLETS: | | | | |
| FRESH | POUNDS | - | 1,071,817 | 225,815 |
| FROZEN | DO | - | 650,716 | 155,181 |
| OCEAN PERCH FILLETS: | | | | |
| FRESH | DO | - | 1,305,909 | 265,287 |
| FROZEN | DO | - | 792,874 | 186,191 |
| ROCKFISHES, FILLETS: | | | | |
| FRESH | DO | - | 1,780,829 | 362,516 |
| FROZEN | DO | - | 299,651 | 67,288 |
| SABLEFISH, CURED: | | | | |
| SALTED | DO | - | 151,866 | 31,617 |
| SMOKED (INCLUDING KIPPERED), | DO | 50 | 40 | 81,944 |
| SALMON: | | | | |
| FRESH AND FROZEN, FILLETS AND STEAKS | DO | - | 982,770 | 684,309 |
| CANNED: | | | | |
| CHINOOK OR KING | STANDARD CASES | 53,664 | 1,937,150 | 12,763 |
| CHUM OR KETA | DO | 523,568 | 12,826,790 | 88,947 |
| PINK | DO | 1,257,299 | 34,423,490 | 95,242 |
| RED OR SOCKEYE | DO | 1,295,545 | 46,561,460 | 142,107 |
| SILVER OR COHO | DO | 81,866 | 2,545,760 | 61,856 |
| STEELHEAD | DO | - | - | 206 |
| TOTAL CANNED SALMON | DO | 3,211,962 | 98,296,650 | 401,121 |
| EGGS FOR BAIT: | | | | |
| SMOKED AND KIPPERED (INCLUDING ING STEELHEAD) | DO | 302 | 30,960 | 259 |
| CURED: | | | | |
| SALTED: | | | | |
| MILD-CURED AND PICKLED | POUNDS | 2,558,300 | 2,521,390 | 1,965,979 |
| EGGS FOR FOOD AND BAIT | DO | 452,200 | 90,030 | 348,341 |
| SMOKED (INCLUDING KIPPERED), | DO | 9,300 | 9,290 | 522,968 |
| SHAD, CANNED: | | | | |
| FISH | STANDARD CASES | - | - | (1) |
| ROE | DO | - | - | (1) |
| STURGEON, SMOKED, CANNED | DO | - | - | 239 |
| TUNA: | | | | |
| CANNED: | | | | |
| ALBACORE | DO | - | - | 153,637 |
| LIGHT MEAT | DO | - | - | 202,783 |
| TOTAL CANNED TUNA | DO | - | - | 356,420 |
| SPECIALTIES (WITH CREAM SAUCE AND WITH NOODLES) | | | | |
| | DO | - | - | (1) |
| CRABS: | | | | |
| DUNGENESS: | | | | |
| COOKED MEAT, FRESH AND FROZEN | POUNDS | 696,900 | 734,040 | 520,441 |
| FROZEN SECTIONS | DO | 55,800 | 16,730 | - |
| CANNED | STANDARD CASES | 17,319 | 530,320 | 23,566 |
| KING: | | | | |
| COOKED MEAT, FROZEN | POUNDS | 4,637,800 | 4,559,980 | - |
| FROZEN SECTIONS AND LEGS | DO | 672,900 | 337,310 | - |
| CANNED | STANDARD CASES | 152,719 | 4,574,980 | (1) |
| TANNER MEAT, FROZEN | POUNDS | 1,400 | 1,220 | - |
| SHRIMP: | | | | |
| RAW, HEADLESS, FRESH AND FROZEN, MEAT, RAW AND COOKED (INCLUDING PEELED AND DEVEINED), FRESH AND FROZEN | DO | 1,200 | 1,840 | - |
| CANNED | DO | 314,500 | 281,460 | - |
| | STANDARD CASES | 112,772 | 1,566,390 | (1) |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PACIFIC COAST FISHERIES

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MANUFACTURED FISHERY PRODUCTS, 1961 - Continued

| ITEM | ALASKA | | WASHINGTON | |
|--------------------------------------|----------------|-------------|-------------|-------------|
| | QUANTITY | VALUE | QUANTITY | VALUE |
| CLAMS: | | | | |
| HARD (INCLUDING PISMO), CANNED: | | | | |
| WHOLE AND MINCED | STANDARD CASES | - | 3,636 | \$43,727 |
| CHOWDER AND JUICE | DO | - | 13,530 | 82,382 |
| RAZOR (INCLUDING COCKLES IN ALASKA): | | | | |
| SHUCKED | GALLONS | - | 9,935 | 63,697 |
| WHOLE AND MINCED, CANNED | STANDARD CASES | 19,252 | \$409,330 | 39,493 |
| OYSTERS: | | | | |
| SHUCKED, FRESH AND FROZEN: | | | | |
| PACIFIC | GALLONS | - | 774,599 | 3,105,752 |
| WESTERN | DO | - | 3,201 | 97,915 |
| CANNED: | | | | |
| REGULAR PACK | STANDARD CASES | - | 66,267 | 1,005,057 |
| STEW | DO | - | 124,612 | 1,691,740 |
| SMOKED | DO | - | 918 | 98,334 |
| FUR SEAL: | | | | |
| MEAL | TONS | 312 | 24,130 | - |
| OIL | GALLONS | 52,458 | 14,819 | - |
| UNCLASSIFIED PRODUCTS: | | | | |
| PACKAGED, FRESH AND FROZEN | POUNDS | - | 2/1,357,560 | 2/ 638,064 |
| CANNED FISH AND SHELLFISH | STANDARD CASES | - | 101,884 | 5/1,081,440 |
| CURED FISH | POUNDS | - | 336,660 | 8/ 86,676 |
| INDUSTRIAL PRODUCTS | - | - | - | 11/ 173,775 |
| TOTAL | - | 114,833,744 | - | 38,377,138 |

| ITEM | OREGON | | CALIFORNIA | |
|--|----------------|-----------|------------|-----------|
| | QUANTITY | VALUE | QUANTITY | VALUE |
| ANCHOVIES, CANNED | STANDARD CASES | - | 73,108 | \$409,276 |
| COD: | | | | |
| FILLETS: | | | | |
| FRESH | POUNDS | 15,109 | \$3,293 | - |
| FROZEN | DO | 17,975 | 3,954 | - |
| SALTED (WHOLE AND BONED) | DO | - | (1) | (1) |
| FLOUNDER FILLETS: | | | | |
| FRESH | DO | 1,455,975 | 537,168 | 1,116,600 |
| FROZEN | DO | 1,095,404 | 370,739 | 1,255,552 |
| HALIBUT, FILLETS, STEAKS, AND PORTIONS, FRESH AND FROZEN | DO | 544,194 | 230,607 | 1,240,212 |
| LINGCOD FILLETS: | | | | |
| FRESH | DO | 129,029 | 28,010 | - |
| FROZEN | DO | 49,808 | 10,755 | 42,500 |
| MACKEREL, CANNED: | | | | |
| JACK | STANDARD CASES | - | - | 994,336 |
| PACIFIC | DO | - | - | 384,017 |
| OCEAN PERCH FILLETS: | | | | |
| FRESH | POUNDS | 573,915 | 118,760 | - |
| FROZEN | DO | 891,284 | 221,949 | 180,000 |
| ROCKFISHES, FILLETS: | | | | |
| FRESH | DO | 1,098,212 | 224,043 | 264,800 |
| FROZEN | DO | 213,073 | 46,557 | 404,884 |
| SABLEFISH, CURED, SMOKED (INCLUDING KIPPERED) | DO | (1) | (1) | 295,104 |
| SALMON: | | | | |
| FRESH AND FROZEN, FILLETS AND STEAKS | DO | - | - | 124,487 |
| CANNED: | | | | |
| CHINOOK OR KING | STANDARD CASES | 48,253 | 2,418,356 | (1) |
| CHUM OR KETA | DO | 1,714 | 46,074 | (1) |
| PINK | DO | 1,151 | 42,908 | - |
| RED OR SOCKEYE | DO | 4,021 | 237,392 | - |
| SILVER OR COHO | DO | 21,513 | 994,586 | - |
| STEELHEAD | DO | 6,633 | 319,622 | - |
| TOTAL CANNED SALMON | DO | 83,285 | 4,058,938 | (1) |
| SMOKED AND KIPPERED (INCLUDING STEELHEAD) | DO | 105 | 8,294 | (1) |
| CURED: | | | | |
| SALTED, MILD-CURED AND PICKLED | POUNDS | - | - | 1,461,605 |
| SMOKED (INCLUDING KIPPERED) | DO | (1) | (1) | 1,139,470 |
| SARDINES, PACIFIC: | | | | |
| CANNED | STANDARD CASES | - | - | 419,086 |
| MEAL | TONS | - | - | 2,518 |
| OIL | GALLONS | - | - | 86,167 |

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PACIFIC COAST FISHERIES

MANUFACTURED FISHERY PRODUCTS, 1961 - Continued

| ITEM | OREGON | | CALIFORNIA | | |
|---|----------------|------------|--------------|--------------|---------------|
| | QUANTITY | VALUE | QUANTITY | VALUE | |
| SHAD, CANNED: | | | | | |
| FISH | STANDARD CASES | 2,219 | \$23,593 | (1) | (1) |
| ROE | DO | 1,196 | 152,621 | - | - |
| STURGEON, SMOKED, CANNED | DO | 238 | 16,450 | - | - |
| TUNA: | | | | | |
| CANNED: | | | | | |
| ALBACORE | DO | 643,624 | 9,239,393 | 1,619,071 | \$21,028,274 |
| LIGHT MEAT | DO | 261,622 | 2,849,596 | 8,754,759 | 101,939,547 |
| UNCLASSIFIED (TONNO) | DO | - | - | 171,738 | 2,296,995 |
| TOTAL | DO | 905,246 | 12,088,989 | 10,545,568 | 125,264,816 |
| SPECIALTIES (WITH CREAM SAUCE AND WITH NOODLES) | DO | (1) | (1) | 59,399 | 676,414 |
| SMOKED | POUNDS | - | - | 8,054 | 4,502 |
| YELLOWTAIL AND BONITO, CANNED | STANDARD CASES | - | - | 159,726 | 1,117,328 |
| CRABS, DUNGENESS: | | | | | |
| COOKED MEAT, FRESH AND FROZEN | POUNDS | 1,228,199 | 1,282,785 | 1,800,474 | 1,844,096 |
| CANNED | STANDARD CASES | 13,728 | 369,916 | (1) | (1) |
| SHRIMP: | | | | | |
| RAW, HEADLESS, FRESH AND FROZEN MEAT, RAW AND COOKED (INCLUDING PEELLED AND DEVEINED), FRESH AND FROZEN | POUNDS | - | - | 365,133 | 306,329 |
| BREADED, FROZEN | DO | 115,091 | 126,047 | 410,041 | 473,864 |
| CANNED | STANDARD CASES | (1) | (1) | 4,126,970 | 2,808,667 |
| ABALONE STEAKS, FROZEN | POUNDS | - | - | 488,372 | 657,703 |
| CLAMS: | | | | | |
| HARD (INCLUDING PISMO), CANNED, WHOLE AND MINCED | STANDARD CASES | - | - | (1) | (1) |
| RAZOR (INCLUDING COCKLES IN ALASKA): | | | | | |
| SHUCKED | GALLONS | (1) | (1) | - | - |
| WHOLE AND MINCED, CANNED | STANDARD CASES | 87 | 22,612 | - | - |
| OYSTERS: | | | | | |
| SHUCKED, FRESH AND FROZEN: | | | | | |
| PACIFIC | GALLONS | 110,142 | 448,699 | 129,114 | 503,121 |
| WESTERN | DO | (1) | (1) | - | - |
| CANNED: | | | | | |
| REGULAR PACK | STANDARD CASES | (1) | (1) | - | - |
| STEW | DO | (1) | (1) | - | - |
| SMOKED | DO | (1) | (1) | - | - |
| SCALLOPS, BREADED, FROZEN (RAW AND COOKED) | POUNDS | - | - | 268,145 | 171,756 |
| SQUID, CANNED | STANDARD CASES | - | - | 114,000 | 548,354 |
| WHALE: | | | | | |
| MEAT, FROZEN (FOR ANIMAL FOOD) | POUNDS | 65,761 | 4,274 | 4,943,650 | 396,631 |
| MEAL | TONS | 17 | 1,716 | - | 201,380 |
| OIL: | | | | | |
| SPERM | GALLONS | 4,090 | 2,607 | 88,728 | 60,509 |
| OTHER | TONS | 1,176 | 529 | 368,720 | 176,694 |
| SOLUBLES | TONS | 14 | 592 | - | - |
| UNCLASSIFIED PRODUCTS: | | | | | |
| PACKAGED, FRESH AND FROZEN | POUNDS | 3/ 31,465 | 3/ 48,096 | 4/7,435,959 | 4/ 3,140,618 |
| CANNED FISH AND SHELLFISH | STANDARD CASES | 6/ 191,239 | 6/ 1,190,198 | 7/2,002,585 | 7/12,660,173 |
| CURED FISH | POUNDS | 9/ 8,200 | 9/ 6,218 | 10/1,073,172 | 10/ 468,177 |
| INDUSTRIAL PRODUCTS | - | - | 12/ 468,153 | - | 13/13,181,103 |
| TOTAL | - | - | 22,121,112 | - | 182,002,016 |

1/ INCLUDED WITH "UNCLASSIFIED PRODUCTS." 2/ INCLUDES FROZEN SABLEFISH AND SWORDFISH STEAKS, AND RAW AND COOKED FISH STICKS. 3/ INCLUDES SHUCKED SOFT, RAZOR, AND MIXED CLAMS, AND WESTERN OYSTERS. 4/ INCLUDES FROZEN SEA BASS AND SWORDFISH STEAKS, FISH AND CHIPS, RAW UNBREADED FISH PORTIONS, COOKED AND RAW/BREADED FISH PORTIONS AND STICKS, BREADED ABALONE STEAKS, ABALONE CAKES, BREADED OYSTERS, AND SHUCKED PISMO CLAMS. 5/ INCLUDES CANNED SALMON LIVER, SHAD, SHAD ROE, SMOKED TUNA, FISH CAKES, ANIMAL FOOD, SMOKED DUNGENESS CRAB, KING CRAB, SHRIMP, CLAMS IN THE SHELL, AND OYSTER SOUP. 6/ INCLUDES CANNED SMOKED SHAD, TUNA, ANIMAL FOOD, SMOKED CRABS, SHRIMP, OYSTERS, SMOKED OYSTERS, AND OYSTER STEW. 7/ INCLUDES CANNED PACIFIC HERRING, SALMON, SMOKED SALMON, SHAD ROE, ANIMAL FOOD, DUNGENESS CRAB MEAT, AND MINCED PISMO CLAMS. 8/ INCLUDES SMOKED AND KIPPERED HALIBUT, LINGCOD, AND STURGEON. 9/ INCLUDES SMOKED AND KIPPERED SABLEFISH, SALMON, AND STURGEON. 10/ INCLUDES SALTED CODFISH, PACIFIC MACKEREL AND PACIFIC SARDINES; SMOKED BARRACUDA, BONITO, BUTTERFISH, CARP, CODFISH, CHUBS, HALIBUT, PACIFIC HERRING, SHAD, STURGEON, WAHOO, AND WHITEFISH. 11/ INCLUDES THE VALUE OF MEAL AND SCRAP FROM HERRING, SALMON, TUNA, AND MACKEREL, UNCLASSIFIED FISH, DUNGENESS CRABS, AND SHRIMP; BODY OIL FROM HALIBUT, HERRING, SALMON, TUNA, AND MACKEREL AND UNCLASSIFIED FISH; OYSTER SHELL LIME AND POULTRY GRIT; FISH FOOD PELLETS; AND LIQUID FERTILIZER. 12/ INCLUDES THE VALUE OF MEAL AND SCRAP FROM UNCLASSIFIED FISH; BODY OIL FROM SALMON, TUNA, AND MACKEREL; LIVER OIL FROM UNCLASSIFIED FISH; FISH FOOD PELLETS; ANIMAL FEEDS; FISH SOLUBLES, LIQUID FERTILIZER, AND OYSTER SHELL LIME AND POULTRY GRIT. 13/ INCLUDES THE VALUE OF MEAL AND SCRAP FROM ANCHOVY, TUNA, AND MACKEREL, AND UNCLASSIFIED FISH; BODY OIL FROM ANCHOVY, TUNA, AND MACKEREL, AND UNCLASSIFIED FISH; LIVER OIL FROM SHARKS; FISH SOLUBLES; Kelp products; AGAR-AGAR; OYSTER SHELL LIME AND POULTRY GRIT.

NOTE:--SOME OF THE ABOVE PRODUCTS MAY HAVE BEEN MANUFACTURED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR A FOREIGN COUNTRY; THEREFORE, THEY CANNOT BE CORRELATED DIRECTLY WITH THE CATCH WITHIN THE STATE.

PACIFIC COAST FISHERIES

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SUMMARY OF MANUFACTURED PRODUCTS, 1961

(VALUE IN THOUSANDS OF DOLLARS)

| ITEM | QUANTITY | VALUE |
|--|----------------------|---------|
| PACKAGED, FRESH AND FROZEN: | | |
| NOT BREADED: | | |
| FISH (FILLETTS, STEAKS, AND PORTIONS) | 1,000 POUNDS | 30,832 |
| SHELLFISH | DO | 20,404 |
| BREADED: | | |
| FISH (FILLETTS, PORTIONS, AND STICKS) | DO | 7,090 |
| SHELLFISH | DO | 4,429 |
| SPECIALTIES (FISH AND SHELLFISH) | DO | 400 |
| WHALE MEAT (FOR ANIMAL FOOD) | DO | 5,010 |
| CANNED: | | |
| FISH FOR HUMAN CONSUMPTION | 1,000 STANDARD CASES | 17,600 |
| ANIMAL FOOD AND SALMON EGGS FOR BAIT | DO | 2,257 |
| SHELLFISH | DO | 715 |
| CURED: | | |
| SALTED FISH | 1,000 POUNDS | 7,570 |
| SMOKED AND KIPPERED | DO | 2,954 |
| INDUSTRIAL PRODUCTS: | | |
| MEAL AND SCRAP | 1,000 TONS | 26 |
| OIL (BODY AND LIVER) | 1,000 GALLONS | 2,229 |
| FISH SOLUBLES | 1,000 TONS | 24 |
| OYSTER SHELL LIME AND POULTRY GRIT | DO | 24 |
| OTHER (AGAR-AGAR, FISH FEED PELLETS, ANIMAL FEEDS, KELP PRODUCTS, LIQUID FERTILIZER) | - | - |
| TOTAL | - | 357,334 |



VALUE OF MANUFACTURED PRODUCTS, BY STATES, 1961

(THOUSANDS OF DOLLARS)

| STATE | VALUE |
|----------------------|---------|
| ALASKA | 114,834 |
| WASHINGTON | 36,377 |
| OREGON | 22,121 |
| CALIFORNIA | 182,002 |
| TOTAL | 357,334 |

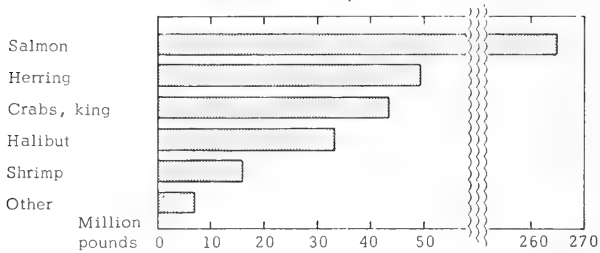


WHOLESALE AND MANUFACTURING, 1961

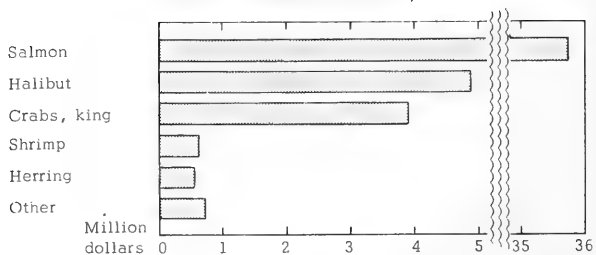
| ITEM | ALASKA | WASHINGTON | OREGON | CALIFORNIA | TOTAL |
|------------------------------|--------|------------|--------|------------|--------|
| WHOLESALE AND MANUFACTURING: | | | | | |
| ESTABLISHMENTS | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| PERSONS ENGAGED | 157 | 181 | 56 | 164 | 558 |
| AVERAGE FOR SEASON | 8,702 | 4,482 | 1,718 | 9,953 | 24,855 |
| AVERAGE FOR YEAR | 2,901 | 2,057 | 1,051 | 7,469 | 13,478 |

PACIFIC COAST FISHERIES

ALASKA CATCH, 1961



VALUE OF ALASKA CATCH, 1961



PACIFIC COAST FISHERIES ALASKA

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CATCH BY REGIONS, 1961

| SPECIES | SOUTHEASTERN ALASKA | | CENTRAL ALASKA | |
|---------------------------|---------------------|-------------|----------------|-------------|
| | POUNDS | VALUE | POUNDS | VALUE |
| FISH | | | | |
| HALIBUT 1/ | 29,423,600 | \$4,394,810 | 3,999,300 | \$493,000 |
| HERRING | 49,419,000 | 558,330 | 45,300 | 690 |
| ROCKFISHES 2/ | 9,900 | 490 | 12,200 | 590 |
| SABLEFISH | 1,334,100 | 160,090 | 2,700 | 320 |
| SALMON: 3/ | | | | |
| CHINOOK OR KING | 2,970,700 | 1,255,070 | 634,500 | 151,080 |
| CHUM OR KETA | 23,118,200 | 2,125,810 | 16,183,500 | 1,166,630 |
| PINK | 6,392,200 | 6,337,200 | 39,079,900 | 3,737,720 |
| RED OR SOCKEYE | 4,754,700 | 1,238,950 | 18,131,900 | 3,994,710 |
| SILVER OR COHO | 7,799,600 | 1,525,800 | 2,925,500 | 413,320 |
| TOTAL SALMON | 102,565,300 | 12,482,830 | 76,955,300 | 9,463,460 |
| TROUT: | | | | |
| DOLLY VARDEN | 12,000 | 1,440 | - | - |
| STEELHEAD | 14,000 | 2,650 | - | - |
| TOTAL FISH | 182,777,900 | 17,600,640 | 81,015,800 | 9,958,060 |
| SHELLFISH | | | | |
| CLAMS: 4/ | | | | |
| COCKLE | - | - | 1,500 | 860 |
| RAZOR | - | - | 389,000 | 119,880 |
| CRABS: | | | | |
| DUNGENESS | 1,695,000 | 152,550 | 2,896,500 | 289,650 |
| KING | 429,600 | 42,960 | 38,854,800 | 3,499,290 |
| TANNER | 6,800 | 680 | - | - |
| SHRIMP | 4,212,300 | 168,490 | 11,766,200 | 470,730 |
| TOTAL SHELLFISH | 6,343,700 | 364,680 | 53,910,000 | 4,380,410 |
| GRAND TOTAL | 189,121,600 | 17,965,320 | 134,925,800 | 14,338,470 |
| SPECIES | WESTERN ALASKA | | TOTAL | |
| FISH | POUNDS | VALUE | POUNDS | VALUE |
| HALIBUT 1/ | - | - | 33,422,900 | \$4,887,810 |
| HERRING | - | - | 49,465,300 | 559,020 |
| ROCKFISHES 2/ | - | - | 22,100 | 1,080 |
| SABLEFISH | - | - | 1,336,800 | 160,410 |
| SALMON: 3/ | | | | |
| CHINOOK OR KING | 4,935,400 | \$836,930 | 8,540,600 | 2,243,080 |
| CHUM OR KETA | 6,819,200 | 553,780 | 46,120,900 | 3,846,220 |
| PINK | 535,500 | 39,880 | 103,537,500 | 10,114,800 |
| RED OR SOCKEYE | 72,342,900 | 12,305,550 | 95,229,500 | 17,539,210 |
| SILVER OR COHO | 660,700 | 58,260 | 11,385,800 | 1,997,400 |
| TOTAL SALMON | 85,293,700 | 13,794,420 | 264,814,300 | 35,740,710 |
| TROUT: | | | | |
| DOLLY VARDEN | - | - | 12,000 | 1,440 |
| STEELHEAD | - | - | 14,000 | 2,650 |
| TOTAL FISH | 85,293,700 | 13,794,420 | 349,087,400 | 41,353,120 |
| SHELLFISH | | | | |
| CLAMS: 4/ | | | | |
| COCKLE | - | - | 1,500 | 860 |
| RAZOR | - | - | 389,000 | 119,880 |
| CRABS: | | | | |
| DUNGENESS | - | - | 4,591,500 | 442,200 |
| KING | 4,127,200 | 371,450 | 43,411,600 | 3,913,700 |
| TANNER | - | - | 6,800 | 680 |
| SHRIMP | - | - | 15,960,500 | 639,220 |
| TOTAL SHELLFISH | 4,127,200 | 371,450 | 64,380,900 | 5,116,540 |
| GRAND TOTAL | 89,420,900 | 14,165,870 | 413,468,300 | 46,469,660 |

1/ INCLUDES THE VALUE OF HALIBUT LIVERS AND VISCERA AMOUNTING TO \$9,810.

2/ INCLUDES LINGCOD.

3/ ESTIMATED WEIGHTS OF SALMON WERE DETERMINED FOR EACH REGION. THESE WEIGHTS WERE USED TO CONVERT NUMBER OF SALMON TO POUNDS.

4/ THE WEIGHT OF CLAMS REPRESENTS THE WEIGHT OF MEATS BASED ON A YIELD OF 25.5 PERCENT FOR COCKLE AND 42 PERCENT FOR RAZOR CLAMS.

NOTE:--THE ABOVE DATA INCLUDE CATCHES OF HALIBUT, SABLEFISH, LINGCOD, AND ROCKFISHES LANDED BY VESSELS OF U. S. REGISTRY IN BRITISH COLUMBIA PORTS. ROUND WEIGHTS OF FISH TAKEN BY HALIBUT VESSELS WERE OBTAINED BY MULTIPLYING REPORTED WEIGHTS, REPRESENTING POUNDAGE OF FISH Eviscerated and WITH HEADS-OFF, BY THE FOLLOWING FACTORS: HALIBUT 1.33, SABLEFISH AND ROCKFISHES 1.43.

PACIFIC COAST FISHERIES

SUMMARY OF PRODUCTS AS PREPARED FOR MARKET, 1961

| ITEM | SOUTHEASTERN ALASKA | | CENTRAL ALASKA | | WESTERN ALASKA | | TOTAL | |
|------------------------------------|---------------------|-------------|----------------|-------------|----------------|--------------|-------------|-------------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| HALIBUT | 19,629,749 | \$5,509,575 | 4,758,150 | \$1,333,910 | - | - | 24,387,899 | \$6,843,485 |
| HERRING | 16,758,400 | 956,970 | 46,300 | 1,630 | - | - | 16,802,700 | 958,600 |
| ROCKFISHES | 8,000 | 720 | 9,900 | 1,430 | - | - | 17,900 | 2,150 |
| SABLEFISH | 1,086,850 | 261,990 | 2,200 | 440 | - | - | 1,089,050 | 262,430 |
| SALMON | 69,266,650 | 39,255,610 | 47,851,450 | 29,685,050 | 53,968,000 | \$38,108,670 | 171,086,300 | 107,049,530 |
| TROUT: | | | | | | | | |
| DOLLY VARDEN | 11,950 | 3,590 | - | - | - | - | 11,950 | 3,590 |
| STEELHEAD | 7,300 | 2,960 | - | - | - | - | 7,300 | 2,960 |
| CLAMS, COCKLE AND RAZOR | - | - | 293,000 | 410,960 | - | - | 293,000 | 410,960 |
| CRABS: | | | | | | | | |
| DUNGENESS | 875,800 | 739,500 | 693,300 | 734,680 | - | - | 1,569,100 | 1,474,180 |
| KING | 142,900 | 162,570 | 7,752,000 | 8,690,610 | 654,100 | 572,320 | 8,549,000 | 9,625,500 |
| TANNER | 1,400 | 1,220 | - | - | - | - | 1,400 | 1,220 |
| SHRIMP | 650,600 | 628,010 | 1,379,600 | 1,233,000 | - | - | 2,030,200 | 1,861,010 |
| FUR SEAL | - | - | - | - | 1,017,400 | 38,949 | 1,017,400 | 38,949 |
| TOTAL | 108,437,799 | 47,522,715 | 62,785,900 | 42,291,710 | 55,639,500 | 38,720,139 | 226,663,199 | 128,534,564 |

NOTE:--DATA ON PRODUCTS AS PREPARED FOR MARKET INCLUDE THE PRODUCTION OF CANADIAN-CAUGHT HALIBUT LANDED IN ALASKA. THE QUANTITY OF FISH LANDED BY HALIBUT CRAFT OF U.S. REGISTRY AT BRITISH COLUMBIA PORTS IS INCLUDED IN THE CATCH CREDITED TO SOUTHEASTERN ALASKA BUT IS NOT INCLUDED IN DATA ON PRODUCTS AS PREPARED FOR MARKET.

PRODUCTS AS PREPARED FOR MARKET, 1961

| ITEM | SOUTHEASTERN ALASKA | | CENTRAL ALASKA | | WESTERN ALASKA | | TOTAL | |
|---|---------------------|-----------|----------------|-----------|----------------|-------------|------------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| FRESH | | | | | | | | |
| HALIBUT | - | - | 1,100 | \$330 | - | - | 1,100 | \$330 |
| HERRING, FOR BAIT | - | - | 46,300 | 1,630 | - | - | 46,300 | 1,630 |
| ROCKFISHES | - | - | 9,900 | 1,430 | - | - | 9,900 | 1,430 |
| SALMON, FOOD, CLAMS, RAZOR, WHOLE | - | - | 1,900 | 1,150 | - | - | 1,900 | 1,150 |
| WHOLE | - | - | 4,200 | 1,630 | - | - | 4,200 | 1,630 |
| CRABS: | | | | | | | | |
| DUNGENESS, WHOLE | 96,800 | \$77,390 | 800 | 300 | - | - | 97,600 | 77,690 |
| KING, WHOLE | - | - | 46,200 | 36,040 | - | - | 46,200 | 36,040 |
| SHRIMP: WHOLE | - | - | 3,400 | 2,380 | - | - | 3,400 | 2,380 |
| TAILS | - | - | 600 | 1,240 | - | - | 600 | 1,240 |
| TOTAL FRESH | 96,800 | 77,390 | 114,400 | 46,130 | - | - | 211,200 | 123,520 |
| FROZEN | | | | | | | | |
| HALIBUT: | | | | | | | | |
| DRESSED | 19,555,700 | 5,490,000 | 4,757,000 | 1,333,530 | - | - | 24,312,700 | 6,823,530 |
| CHEEKS | 19,749 | 6,525 | - | - | - | - | 19,749 | 6,525 |
| LIVERS | 40,200 | 11,640 | - | - | - | - | 40,200 | 11,640 |
| VISCERA | 14,100 | 1,410 | - | - | - | - | 14,100 | 1,410 |
| HERRING, FOR BAIT | 3,680,000 | 132,730 | - | - | - | - | 3,680,000 | 132,730 |
| ROCKFISHES, FOR BAIT | 8,000 | 720 | - | - | - | - | 8,000 | 720 |
| SABLEFISH, FOR FOOD | 1,086,800 | 261,950 | 2,200 | 440 | - | - | 1,089,000 | 262,390 |
| SALMON: | | | | | | | | |
| FOOD | 6,109,000 | 3,902,760 | 2,723,500 | 988,100 | 2,683,600 | \$1,197,240 | 13,516,100 | 6,088,100 |
| BAIT | 250,100 | 11,020 | - | - | - | - | 250,100 | 11,020 |
| VISCERA | 110,000 | 1,100 | - | - | - | - | 110,000 | 1,100 |
| TROUT: | | | | | | | | |
| DOLLY VARDEN | 11,900 | 3,570 | - | - | - | - | 11,900 | 3,570 |
| STEELHEAD | 7,200 | 2,800 | - | - | - | - | 7,200 | 2,800 |
| CRABS: | | | | | | | | |
| DUNGENESS: WHOLE | 217,000 | 66,170 | 164,100 | 49,230 | - | - | 381,100 | 115,400 |
| SECTIONS | 55,800 | 16,730 | - | - | - | - | 55,800 | 16,730 |
| MEAT | 115,700 | 127,500 | 279,000 | 279,040 | - | - | 394,700 | 406,540 |
| COLD PACK | 302,200 | 327,500 | - | - | - | - | 302,200 | 327,500 |
| KING: WHOLE | 3,100 | 1,180 | 25,000 | 13,700 | 186,000 | 102,310 | 214,100 | 117,190 |
| SECTIONS | 26,500 | 14,570 | 579,200 | 290,410 | - | - | 605,700 | 304,980 |
| MEAT | 63,000 | 71,260 | 4,036,800 | 3,946,940 | 465,300 | 465,340 | 4,569,100 | 4,483,540 |

(CONTINUED ON NEXT PAGE)

PACIFIC COAST FISHERIES

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PRODUCTS AS PREPARED FOR MARKET, 1961 - Continued

| ITEM | SOUTHEASTERN ALASKA | | CENTRAL ALASKA | | WESTERN ALASKA | | TOTAL | |
|---|---|--|--|--|---|--|--|--|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| FROZEN-CONTINUED CRABS-CONTINUED: KING-CONT'D: COLD PACK LEGS TANNER, MEAT. SHRIMP: WHOLE COLD PACK MEAT COLD PACK TAILS TOTAL FROZEN | 34,021,349 | 10,746,705 | 12,697,400 | 7,004,810 | 3,334,900 | \$1,764,890 | 50,053,649 | 19,516,405 |
| CURED SABLEFISH, SMOKED SALMON: MILD CURED PICKLED SMOKED OR KIPPERED EGGS, SALTED. TROUT, DOLLY VARDEN, SMOKED TOTAL CURED. CANNED SALMON: CHINOOK OR KING CHUM OR KETA. PINK RED OR SOCK- EYE SILVER OR COHO TOTAL HALIBUT, SMOKED SALMON, SMOKED: CHINOOK OR KING CHUM OR KETA. PINK RED OR SOCK- EYE SILVER OR COHO TOTAL TROUT, STEEL- HEAD, SMOKED CLAMS, COCKLE AND RAZOR: WHOLE MINCED CRABS: DUNGNESS KING SHRIMP TOTAL CANNED INDUSTRIAL PRODUCTS MEAL: FUR SEAL HERRING OIL: FUR SEAL HERRING TOTAL INDUS- TRIAL PROD- UCTS GRAND TOTAL. | 50 1,577,200 - 4,300 452,200 50 2,033,800 22,200 13,371,500 39,915,600 3,174,300 2,270,800 58,754,400 - 7,000 50 100 - - 2,500 9,650 100 - - 86,300 41,000 316,000 59,209,450 - 7,620,000 - 5,456,400 13,076,400 108,437,799 | 40 1,615,570 - 5,220 90,030 20 1,710,680 13,820 6,821,210 22,856,740 2,414,700 1,500,020 33,606,490 1,937,150 12,828,790 34,423,490 46,561,460 2,545,760 98,296,650 7,500 2,250 100 150 4,400 14,400 100 1,000 297,800 337,700 2,978,000 1,691,600 159,484,650 624,000 7,620,000 393,400 5,456,400 14,093,800 226,863,199 | - 1,400 - 5,000 - - 17,200 829,700 9,090,900 20,411,200 13,216,100 1,556,200 45,104,100 500 2,200 80 150 1,900 4,750 950 3,320 - 180 2,930 7,380 1,530 407,800 406,110 4,500,100 1,229,380 35,227,020 - - - - - - 624,000 - 393,400 - 1,017,400 55,639,500 | - 553,360 - - - - 968,900 1,273,110 2,668,900 23,500 45,795,700 102,500 50,315,500 - - - - - - 2,576,800 1,346,880 9,800 33,315,580 70,120 36,015,490 7,500 2,250 100 150 4,400 14,400 100 1,000 297,800 337,700 2,978,000 1,691,600 36,020,160 24,130 7,620,000 14,819 5,456,400 38,949 38,720,139 | 50 2,148,200 410,100 9,300 452,200 50 3,019,900 2,576,800 25,131,300 60,350,300 62,186,100 3,929,500 154,174,000 7,500 2,250 100 150 4,400 14,400 100 1,000 297,800 337,700 2,978,000 1,691,600 159,484,650 624,000 7,620,000 393,400 5,456,400 14,093,800 226,863,199 | 40 2,169,980 331,410 9,290 90,030 20 2,620,770 1,937,150 12,828,790 34,423,490 46,561,460 2,545,760 98,296,650 7,500 3,400 80 180 7,070 30,800 1,530 407,800 530,320 4,574,980 1,568,390 105,410,680 24,130 444,530 379,710 863,189 128,534,564 | | |

PACIFIC COAST FISHERIES

SOUTHEASTERN REGION OF ALASKA OPERATING UNITS BY GEAR, 1961

| ITEM | PURSE SEINES ^{1/} | | BEAM TRAWLS, SHRIMP | FLOATING TRAPS | POTS, CRAB | |
|------------------------------|----------------------------|---------|---------------------|----------------|------------|--|
| | HERRING | SALMON | | | DUNGENESS | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| FISHERMEN: | | | | | | |
| ON VESSELS | 145 | 2,413 | 41 | - | 34 | |
| ON BOATS AND SHORE | - | 340 | - | 22 | 2 | |
| TOTAL | 145 | 2,753 | 41 | 22 | 36 | |
| VESSELS, MOTOR | 16 | 415 | 18 | - | 16 | |
| GROSS TONNAGE | 1,626 | 11,760 | 491 | - | 367 | |
| BOATS, MOTOR | 16 | 552 | - | - | 1 | |
| GEAR: | | | | | | |
| NUMBER | 18 | 483 | 18 | 11 | 2,465 | |
| LENGTH, YARDS | 8,680 | 221,650 | - | - | - | |
| YARDS AT MOUTH | - | - | 202 | - | - | |

| ITEM | POTS, CRAB-CONTINUED | GILL NETS, SALMON | | LINES | | TOTAL, EXCLUSIVE OF DUPLICATION |
|------------------------------|----------------------|-------------------|--------|-----------------------|---------------|---------------------------------|
| | KING | DRIFT | SET | LONG OR SET, AND HAND | TROLL, SALMON | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | |
| ON VESSELS | 41 | 126 | - | 1,149 | 792 | 4,047 |
| ON BOATS AND SHORE | - | 266 | 178 | 118 | 976 | 1,734 |
| TOTAL | 41 | 412 | 178 | 1,267 | 1,768 | 5,781 |
| VESSELS, MOTOR | 14 | 93 | - | 263 | 668 | 1,264 |
| GROSS TONNAGE | 430 | 972 | - | 7,952 | 9,063 | 27,308 |
| BOATS, MOTOR | - | 266 | 178 | 76 | 827 | 1,847 |
| GEAR: | | | | | | |
| NUMBER | 405 | 391 | 178 | 8,510 | 5,980 | - |
| LENGTH, YARDS | - | 164,360 | 23,534 | - | - | - |
| SQUARE YARDS | - | 1,144,466 | 95,052 | - | - | - |
| HOOKS | - | - | - | 754,139 | 36,662 | - |

^{1/} INCLUDES HAUL SEINES.

SOUTHEASTERN REGION OF ALASKA CATCH BY GEAR, 1961

| SPECIES | PURSE SEINES ^{1/} | | BEAM TRAWLS | | FLOATING TRAPS | |
|---------------------------|----------------------------|-----------|-------------|-----------|----------------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| HERRING | 49,419,000 | \$558,330 | - | - | - | - |
| SALMON: | | | | | | |
| CHINOOK OR KING | 96,300 | 12,210 | - | - | 500 | \$40 |
| CHUM OR KETA | 20,043,300 | 1,751,250 | - | - | 392,000 | 33,700 |
| PINK | 56,849,600 | 5,618,720 | - | - | 4,795,800 | 476,180 |
| RED OR SOCKEYE | 2,722,700 | 692,950 | - | - | 119,100 | 28,790 |
| SILVER OR COHO | 2,296,600 | 250,930 | - | - | 85,600 | 9,450 |
| TOTAL SALMON | 82,012,500 | 8,326,060 | - | - | 5,393,000 | 548,160 |
| TROUT: | | | | | | |
| DOLLY VARDEN | 5,700 | 490 | - | - | - | - |
| STEELHEAD | 200 | 40 | - | - | - | - |
| SHRIMP | - | - | 4,212,300 | \$168,490 | - | - |
| TOTAL | 131,437,400 | 8,884,920 | 4,212,300 | 168,490 | 5,393,000 | 548,160 |

| SPECIES | POTS | | GILL NETS | | | |
|---------------------------|--------|-------|----------------------|----------|-----------|-----------|
| | | | ANCHOR, SET OR STAKE | | DRIFT | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| SALMON: | | | | | | |
| CHINOOK OR KING | - | - | 46,200 | \$10,060 | 309,000 | \$50,000 |
| CHUM OR KETA | - | - | 156,300 | 13,850 | 2,503,700 | 324,890 |
| PINK | - | - | 366,400 | 29,880 | 1,812,400 | 202,770 |
| RED OR SOCKEYE | - | - | 612,800 | 116,090 | 1,291,200 | 399,120 |
| SILVER OR COHO | - | - | 1,087,800 | 162,850 | 615,500 | 168,250 |
| TOTAL SALMON | - | - | 2,269,500 | 332,730 | 6,731,800 | 1,145,030 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PACIFIC COAST FISHERIES

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SOUTHEASTERN REGION OF ALASKA

CATCH BY GEAR, 1961 - Continued

| SPECIES | POTS | | GILL NETS | | | |
|------------------------------------|----------------------|-------------|----------------------|-----------|-----------|-----------|
| | | | ANCHOR, SET OR STAKE | | DRIFT | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| TROUT, STEELHEAD | - | - | - | - | 13,700 | \$2,590 |
| CRABS: | | | | | | |
| DUNGENESS | 1,695,000 | \$152,550 | - | - | - | - |
| KING | 429,600 | 42,960 | - | - | - | - |
| TANNER | 6,800 | 680 | - | - | - | - |
| TOTAL | 2,131,400 | 196,190 | 2,269,500 | \$332,730 | 6,745,500 | 1,147,620 |
| SPECIES | LINES | | | | | |
| | LONG OR SET AND HAND | | | TROLL | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| HALIBUT | 29,423,600 | \$4,394,810 | - | - | - | - |
| ROCKFISHES ^{2/} | 8,400 | 420 | 1,500 | - | - | \$70 |
| SABLEFISH | 1,334,100 | 160,090 | - | - | - | - |
| SALMON: | | | | | | |
| CHINOOK OR KING | - | - | 2,516,700 | - | 1,182,760 | - |
| CHUM OR KETA | - | - | 22,900 | - | 2,120 | - |
| PINK | - | - | 97,900 | - | 9,650 | - |
| RED OR SOCKEYE | - | - | 8,900 | - | 2,000 | - |
| SILVER OR COHO | - | - | 3,512,100 | - | 934,320 | - |
| TOTAL SALMON | - | - | 6,158,500 | - | 2,130,850 | - |
| TROUT: | | | | | | |
| DOLLY VARDEN | - | - | 6,300 | - | 950 | - |
| STEELHEAD | - | - | 100 | - | 20 | - |
| TOTAL | 30,766,100 | 4,555,320 | 6,166,400 | - | 2,131,890 | - |

1/ INCLUDES HAUL SEINES.

2/ INCLUDES LINGCOD.

CENTRAL REGION OF ALASKA OPERATING UNITS BY GEAR, 1961

| ITEM | PURSE SEINES ^{1/} | | OTTER TRAWLS | | POTS | | |
|------------------------------|----------------------------|-----------|----------------------|---------------|-----------|---------------|---------------------------------|
| | HERRING | SALMON | SHRIMP | FISH | CRAB | | SHRIMP |
| | | | | | DUNGENESS | KING | |
| FISHERMEN: | | | | | | | |
| ON VESSELS | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| ON BOATS AND SHORE | 5 | 1,852 | 50 | 6 | 40 | 704 | - |
| TOTAL | 3 | 1,268 | - | - | 66 | 106 | 2 |
| VESSELS, MOTOR | 8 | 3,120 | 50 | 6 | 106 | 810 | 2 |
| GROSS TONNAGE | 1 | 442 | 16 | 2 | 20 | 272 | - |
| BOATS, MOTOR | 16 | 6,612 | 772 | 94 | 219 | 7,424 | - |
| GEAR: | 3 | 1,079 | - | - | 35 | 53 | 1 |
| NUMBER | 2 | 759 | 16 | 2 | 5,500 | 9,701 | 30 |
| LENGTH, YARDS | 800 | 266,716 | - | - | - | - | - |
| YARDS AT MOUTH | - | - | 255 | 30 | - | - | - |
| ITEM | GILL NETS, SALMON | | LINES | | DIP NETS | SHOVELS, CLAM | TOTAL, EXCLUSIVE OF DUPLICATION |
| | ANCHOR, SET OR STAKE | DRIFT | LONG OR SET AND HAND | TROLL, SALMON | | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | | |
| ON VESSELS | 72 | 277 | 255 | 27 | - | - | 2,561 |
| ON BOATS AND SHORE | 842 | 663 | 14 | 4 | 10 | 394 | 3,133 |
| TOTAL | 914 | 940 | 269 | 31 | 10 | 394 | 5,694 |
| VESSELS, MOTOR | 35 | 187 | 49 | 14 | - | - | 707 |
| GROSS TONNAGE | 728 | 2,241 | 2,077 | 362 | - | - | 14,790 |
| BOATS, MOTOR | 842 | 663 | 9 | 4 | - | - | 2,600 |
| GEAR: | | | | | | | |
| NUMBER | 877 | 650 | 1,879 | 72 | 10 | 394 | - |
| LENGTH, YARDS | 201,622 | 257,708 | - | - | - | - | - |
| SQUARE YARDS | 726,419 | 1,107,758 | - | - | - | - | - |
| HOOKS | - | - | 142,507 | 535 | - | - | - |

1/ INCLUDES HAUL SEINES.

PACIFIC COAST FISHERIES

CENTRAL REGION OF ALASKA

CATCH BY GEAR, 1961

| SPECIES | PURSE SEINES 1/ | | OTTER TRAWLS | | POTS | |
|---------------------------|-----------------|-----------|--------------|---------|------------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| HERRING | 17,400 | \$260 | - | - | - | - |
| ROCKFISHES 2/ | - | - | 12,200 | \$590 | - | - |
| SALMON: | | | | | | |
| CHINOOK OR KING | 23,300 | 5,730 | - | - | - | - |
| CHUM OR KETA | 12,309,300 | 862,030 | - | - | - | - |
| PINK | 36,526,400 | 3,491,050 | - | - | - | - |
| RED OR SOCKEYE | 5,143,000 | 926,120 | - | - | - | - |
| SILVER OR COHO | 321,600 | 37,060 | - | - | - | - |
| TOTAL SALMON | 54,324,400 | 5,321,990 | - | - | - | - |
| CRABS: | | | | | | |
| DUNGENESS | - | - | - | - | 2,696,500 | \$289,650 |
| KING | - | - | - | - | 38,654,800 | 3,499,290 |
| SHRIMP | - | - | 11,610,400 | 464,420 | 157,800 | 6,310 |
| TOTAL | 54,341,600 | 5,322,250 | 11,622,600 | 465,010 | 41,909,100 | 3,795,250 |

| SPECIES | GILL NETS | | | | LINES | |
|---------------------------|----------------------|-----------|------------|-----------|----------------------|-----------|
| | ANCHOR, SET OR STAKE | | DRIFT | | LONG OR SET AND HAND | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| HALIBUT | - | - | - | - | 3,999,300 | \$493,000 |
| SABLEFISH | - | - | - | - | 2,700 | 320 |
| SALMON: | | | | | | |
| CHINOOK OR KING | 413,600 | \$93,230 | 192,600 | \$49,780 | - | - |
| CHUM OR KETA | 1,425,000 | 107,650 | 2,449,200 | 196,950 | - | - |
| PINK | 2,434,600 | 234,130 | 117,500 | 12,390 | - | - |
| RED OR SOCKEYE | 4,661,900 | 1,021,930 | 8,325,800 | 2,046,530 | - | - |
| SILVER OR COHO | 677,000 | 100,140 | 1,840,000 | 253,040 | - | - |
| TOTAL SALMON | 9,612,100 | 1,557,080 | 12,925,100 | 2,558,690 | - | - |
| TOTAL | 9,612,100 | 1,557,080 | 12,925,100 | 2,558,690 | 4,002,000 | 493,320 |

| SPECIES | LINES - CONTINUED | | DIP NETS | | SHOVELS | |
|---------------------------|-------------------|---------|----------|-------|---------|---------|
| | TROLL | | | | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| HERRING | - | - | 26,900 | \$430 | - | - |
| SALMON: | | | | | | |
| CHINOOK OR KING | 5,000 | \$2,340 | - | - | - | - |
| PINK | 1,400 | 150 | - | - | - | - |
| RED OR SOCKEYE | 600 | 130 | - | - | - | - |
| SILVER OR COHO | 86,700 | 23,060 | - | - | - | - |
| TOTAL SALMON | 93,700 | 25,700 | - | - | - | - |
| CLAMS: | | | | | | |
| COCKLE 3/ | - | - | - | - | 1,500 | \$860 |
| RAZOR 4/ | - | - | - | - | 389,000 | 119,880 |
| TOTAL | 93,700 | 25,700 | 26,900 | 430 | 390,500 | 120,740 |

1/ INCLUDES HAUL SEINES.

2/ INCLUDES LINGCOD.

3/ BASED ON A YIELD OF 25.5 PERCENT MEATS.

4/ BASED ON A YIELD OF 42 PERCENT MEATS.



PACIFIC COAST FISHERIES

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WESTERN REGION OF ALASKA

OPERATING UNITS BY GEAR, 1961

| ITEM | PURSE SEINES, SALMON 1/ | OTTER TRAWLS, CRAB | POTS, CRAB, KING | GILL NETS, SALMON | | FISH WHEELS | TOTAL, EXCLUSIVE OF DUPLICATION |
|------------------------------------|----------------------------|--------------------|------------------|----------------------|-----------|-------------|---------------------------------|
| | | | | ANCHOR, SET OR STAKE | DRIFT | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: ON VESSELS | 83 | 3 | 30 | - | 367 | - | 470 |
| ON BOATS AND SHORE | 32 | - | - | 992 | 3,116 | 8 | 4,042 |
| TOTAL | 115 | 3 | 30 | 992 | 3,483 | 8 | 4,512 |
| VESSELS, MOTOR | 19 | 1 | 9 | - | 185 | - | 209 |
| GROSS TONNAGE | 588 | 96 | 617 | - | 1,722 | - | 2,904 |
| BOATS, MOTOR | 35 | - | - | 992 | 1,640 | - | 2,377 |
| GEAR: | | | | | | | |
| NUMBER | 27 | 1 | 380 | 992 | 1,825 | 8 | - |
| LENGTH, YARDS | 10,620 | - | - | 147,586 | 489,059 | - | - |
| SQUARE YARDS | - | - | - | 704,915 | 1,691,222 | - | - |
| YARDS AT MOUTH | - | 20 | - | - | - | - | - |

1/ INCLUDES HAUL SEINES.

WESTERN REGION OF ALASKA - CATCH BY GEAR, 1961

| SPECIES | PURSE SEINES 1/ | | OTTER TRAWLS | | POTS | |
|---------------------------|----------------------|-----------|--------------|------------|-------------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| SALMON: | | | | | | |
| CHINOOK OR KING | 4,700 | \$830 | - | - | - | - |
| CHUM OR KETA | 799,800 | 60,420 | - | - | - | - |
| PINK | 442,400 | 35,210 | - | - | - | - |
| RED OR SOCKEYE | 180,500 | 31,150 | - | - | - | - |
| SILVER OR COHO | 2,600 | 490 | - | - | - | - |
| TOTAL SALMON | 1,430,100 | 128,100 | - | - | - | - |
| CRABS, KING | - | - | 2,300 | \$210 | 4,124,900 | \$371,240 |
| TOTAL | 1,430,100 | 128,100 | 2,300 | 210 | 4,124,900 | 371,240 |
| SPECIES | GILL NETS | | | | FISH WHEELS | |
| | ANCHOR, SET OR STAKE | | DRIFT | | POUNDS | VALUE |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| SALMON: | | | | | | |
| CHINOOK OR KING | 2,650,500 | \$391,770 | 2,239,700 | \$438,470 | 40,500 | \$5,860 |
| CHUM OR KETA | 936,400 | 71,070 | 5,065,000 | 422,290 | - | - |
| PINK | 91,000 | 4,330 | 2,100 | 140 | - | - |
| RED OR SOCKEYE | 4,802,800 | 817,440 | 67,359,500 | 11,456,960 | - | - |
| SILVER OR COHO | 447,400 | 40,040 | 210,700 | 17,750 | - | - |
| TOTAL SALMON | 8,928,100 | 1,324,850 | 74,895,000 | 12,335,610 | 40,500 | 5,860 |
| TOTAL | 8,928,100 | 1,324,850 | 74,895,000 | 12,335,610 | 40,500 | 5,860 |

1/ INCLUDES HAUL SEINES.

PACIFIC COAST FISHERIES

NUMBER OF SALMON CAUGHT, BY REGIONS, 1961

| SPECIES | SOUTHEASTERN ALASKA | | CENTRAL ALASKA | | WESTERN ALASKA | | TOTAL | |
|----------------------|---------------------|-------------|----------------|-----------|----------------|------------|------------|-------------|
| | NUMBER | VALUE | NUMBER | VALUE | NUMBER | VALUE | NUMBER | VALUE |
| CHINOOK OR KING. . . | 229,538 | \$1,253,070 | 30,912 | \$151,080 | 243,132 | \$836,930 | 503,582 | \$2,243,080 |
| CHUM OR KETA . . . | 2,559,269 | 2,125,610 | 2,080,429 | 1,166,630 | 991,090 | 553,760 | 5,630,788 | 3,846,220 |
| PINK | 12,637,503 | 6,337,200 | 6,736,376 | 3,737,720 | 131,893 | 39,880 | 21,505,774 | 10,114,000 |
| RED OR SOCKEYE . . . | 744,484 | 1,238,950 | 3,030,251 | 3,994,710 | 12,306,570 | 12,305,550 | 16,081,305 | 17,539,210 |
| SILVER OR COHO . . . | 889,419 | 1,525,800 | 357,377 | 413,320 | 66,980 | 58,280 | 1,313,776 | 1,997,400 |
| TOTAL | 17,060,213 | 12,482,630 | 14,235,347 | 9,463,460 | 13,739,665 | 13,794,420 | 45,035,225 | 35,740,710 |

NOTE:--THE SALMON CATCH IS REPORTED IN NUMBERS OF FISH. THE ROUND WEIGHTS USED IN CATCH TABLES WERE OBTAINED BY MULTIPLYING NUMBER OF FISH BY THEIR AVERAGE WEIGHT.

AVERAGE WEIGHT OF SALMON, BY REGIONS, 1961, 1960, AND 1959

| SPECIES | 1961 | | | ALL REGIONS | | |
|----------------------|--------------|---------|---------|-------------|--------|--------|
| | SOUTHEASTERN | CENTRAL | WESTERN | 1961 | 1960 | 1959 |
| | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS | POUNDS |
| CHINOOK OR KING. . . | 12,941 | 20,525 | 20,299 | 16,959 | 16,537 | 19,496 |
| CHUM OR KETA . . . | 9,033 | 7,778 | 6,880 | 8,190 | 7,199 | 7,984 |
| PINK | 5,058 | 4,473 | 4,060 | 4,814 | 3,270 | 4,396 |
| RED OR SOCKEYE . . . | 6,386 | 5,983 | 5,878 | 5,921 | 4,944 | 5,449 |
| SILVER OR COHO . . . | 8,769 | 8,185 | 9,863 | 8,666 | 6,802 | 7,889 |

TRANSPORTING, WHOLESALING, AND MANUFACTURING, 1961

| ITEM | SOUTHEASTERN ALASKA | CENTRAL ALASKA | WESTERN ALASKA | TOTAL, EXCLUSIVE OF DUPLICATION |
|---|---------------------|----------------|----------------|---------------------------------|
| | NUMBER | NUMBER | NUMBER | NUMBER |
| TRANSPORTING: | | | | |
| PERSONS ENGAGED. | 196 | 310 | 268 | 767 |
| CRAFT TRANSPORTING: | | | | |
| VESSELS, MOTOR | 85 | 111 | 30 | 225 |
| GROSS TONNAGE. | 7,063 | 13,731 | 3,724 | 22,612 |
| BOATS, MOTOR | 8 | 10 | 18 | 35 |
| LIGHTERS AND SCOWS | 44 | 93 | 67 | 224 |
| BOATS AND SKIFFS USED OTHER THAN IN FISHING OR TRANSPORTING | 109 | 47 | 78 | 234 |
| SCOWS, PILEDRIVERS, ETC. | 4 | 5 | - | 9 |
| WHOLESALE AND MANUFACTURING, PERSONS ENGAGED | 2,639 | 2,882 | 3,253 | 8,702 |
| ESTABLISHMENTS: | | | | |
| HANDLING FRESH AND FROZEN FISH AND SHELLFISH. | 26 | 23 | 10 | 54 |
| CURING FISH. | 17 | 9 | 14 | 40 |
| CANNING FISH AND SHELLFISH | 25 | 43 | 23 | 90 |
| MANUFACTURING INDUSTRIAL PRODUCTS. | 4 | - | 1 | 5 |
| TOTAL ESTABLISHMENTS, (EXCLUSIVE OF DUPLICATION) | 55 | 64 | 44 | 157 |

PACIFIC COAST FISHERIES

293

PRODUCTION OF CANNED PRODUCTS, 1961

(IN STANDARD CASES)

| ITEM | SOUTHEASTERN ALASKA | | CENTRAL ALASKA | | WESTERN ALASKA | | TOTAL | |
|---------------------------------------|---------------------|------------|----------------|------------|----------------|-------------|-----------|-------------|
| | CASES | VALUE | CASES | VALUE | CASES | VALUE | CASES | VALUE |
| HALIBUT, SMOKED. . . | - | - | 1 | \$50 | - | - | 1 | \$50 |
| SALMON: | | | | | | | | |
| CHINOOK OR KING. . . | 463 | \$13,820 | 17,286 | 650,220 | 35,935 | \$1,273,110 | 53,684 | 1,937,150 |
| CHUM OR KETA . . . | 279,572 | 6,821,210 | 189,394 | 4,660,700 | 55,602 | 1,346,860 | 523,568 | 12,826,790 |
| PINK | 831,576 | 22,856,740 | 425,233 | 11,556,950 | 490 | 9,800 | 1,257,299 | 34,423,490 |
| RED OR SOCKEYE . . . | 66,132 | 2,414,700 | 275,335 | 10,831,180 | 954,078 | 33,315,580 | 1,295,545 | 46,561,460 |
| SILVER OR COHO . . . | 47,309 | 1,500,020 | 32,421 | 975,620 | 2,136 | 70,120 | 81,866 | 2,545,760 |
| TOTAL | 1,224,052 | 33,606,490 | 939,669 | 28,674,670 | 1,048,241 | 36,015,490 | 3,211,962 | 98,296,650 |
| SALMON, SMOKED: | | | | | | | | |
| CHINOOK OR KING. . . | 146 | 19,120 | 11 | 950 | - | - | 157 | 20,070 |
| CHUM OR KETA . . . | 1 | 80 | 45 | 3,320 | - | - | 46 | 3,400 |
| PINK | 2 | 80 | - | - | - | - | 2 | 80 |
| RED OR SOCKEYE . . . | - | - | 3 | 180 | - | - | 3 | 180 |
| SILVER OR COHO . . . | 52 | 4,140 | 40 | 2,930 | - | - | 92 | 7,070 |
| TOTAL | 201 | 23,420 | 99 | 7,380 | - | - | 300 | 30,800 |
| TROUT, SMOKED, STEELHEAD | 2 | 160 | - | - | - | - | 2 | 160 |
| SHELLFISH | | | | | | | | |
| CLAMS, COCKLE AND RAZOR | - | - | 19,252 | 409,330 | - | - | 19,252 | 409,330 |
| CRAB MEAT: | | | | | | | | |
| DUNGENESS. | 4,530 | 124,210 | 12,789 | 406,110 | - | - | 17,319 | 530,320 |
| KING | 2,104 | 70,210 | 150,469 | 4,500,100 | 146 | 4,670 | 152,719 | 4,574,960 |
| SHRIMP | 21,064 | 339,010 | 91,708 | 1,229,380 | - | - | 112,772 | 1,568,390 |
| GRAND TOTAL | 1,251,953 | 34,163,500 | 1,213,987 | 35,227,020 | 1,048,387 | 36,020,160 | 3,514,327 | 105,410,680 |

NOTE:--STANDARD CASES REPRESENT THE VARIOUS SIZE PACKS CONVERTED AS FOLLOWS: SALMON, 48 CANS, EACH CONTAINING 16 OUNCES; CLAMS, 48 CANS, EACH CONTAINING 5 OUNCES OF MEATS (DRAINED WEIGHT); CRAB MEAT, 48 CANS, EACH CONTAINING 6-1/2 OUNCES; AND SHRIMP, 48 CANS, EACH CONTAINING 5 OUNCES OF MEAT (DRAINED WEIGHT).

PRODUCTION OF INDUSTRIAL PRODUCTS, 1961

| ITEM | SOUTHEASTERN ALASKA | | WESTERN ALASKA | | TOTAL | |
|--------------------|---------------------|---------|----------------|----------|----------|----------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| MEAL: | | | | | | |
| FUR SEAL | TONS | - | 312 | \$24,130 | 312 | \$24,130 |
| HERRING | " | 3,810 | - | - | 3,810 | 444,530 |
| OIL: | | | | | | |
| FUR SEAL | GALLONS | - | 52,458 | 14,819 | 52,458 | 14,819 |
| HERRING | " | 727,520 | - | - | 727,520 | 379,710 |
| TOTAL | " | - | - | 38,949 | - | 863,169 |



PACIFIC COAST FISHERIES

WASHINGTON

CATCH BY DISTRICTS, 1961

| SPECIES | FUGET SOUND | | COASTAL | | COLUMBIA RIVER | |
|-----------------------------------|-------------|------------|------------|-----------|----------------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| FISH | | | | | | |
| CARP | - | - | - | - | 798,000 | \$9,576 |
| COD | 2,958,700 | \$144,977 | 4,100 | \$205 | - | - |
| FLOUNDERS: | | | | | | |
| "SOLE" | 15,249,600 | 956,986 | 44,000 | 3,448 | - | - |
| OTHER | 1,171,100 | 56,210 | 3,300 | 158 | 13,500 | 311 |
| HAKE | 158,400 | 1,108 | - | - | - | - |
| HALIBUT | 19,285,000 | 3,436,548 | 79,800 | 10,025 | 5,300 | 594 |
| HERRING, SEA | 3,606,700 | 134,642 | - | - | - | - |
| LINGCOD | 5,587,300 | 280,891 | 219,700 | 9,235 | 13,600 | 429 |
| OCEAN PERCH | 7,860,000 | 392,998 | 10,900 | 437 | - | - |
| PERCH | 161,700 | 20,989 | 14,900 | 847 | - | - |
| RATFISH | 1,130,400 | 7,913 | - | - | - | - |
| ROCKFISHES | 6,729,800 | 274,989 | 337,800 | 12,063 | 89,200 | 1,874 |
| SABLEFISH | 3,167,200 | 396,163 | 13,700 | 980 | - | - |
| SALMON: | | | | | | |
| CHINOOK OR KING | 2,640,000 | 1,035,845 | 1,808,500 | 821,457 | 1,561,200 | 585,750 |
| CUM OR KETA | 1,523,400 | 320,145 | 450,000 | 82,746 | 5,400 | 881 |
| PINK | 4,809,100 | 615,225 | 106,000 | 20,843 | 100 | 19 |
| RED OR SOCKEYE | 8,104,300 | 2,642,375 | 152,800 | 78,361 | 52,400 | 20,966 |
| SILVER OR COHO | 5,136,300 | 1,517,381 | 2,563,900 | 778,833 | 974,900 | 286,183 |
| TOTAL SALMON | 22,213,100 | 6,330,971 | 5,091,200 | 1,782,240 | 2,594,000 | 895,799 |
| SHAD | 100 | 5 | 1,600 | 80 | 165,600 | 14,822 |
| SHARKS: | | | | | | |
| GRAYFISH | 790,700 | 3,953 | - | - | - | - |
| SOUPFIN | 1,300 | 88 | - | - | - | - |
| TOTAL SHARKS | 792,000 | 4,041 | - | - | - | - |
| SKATES | 499,600 | 2,498 | - | - | - | - |
| SMELT: | | | | | | |
| EULACHON | - | - | 1,100 | 108 | 871,100 | 117,593 |
| SURF OR SILVER | 66,100 | 8,002 | 191,800 | 15,384 | - | - |
| STEELHEAD TROUT | 64,200 | 17,972 | 122,900 | 34,421 | 180,600 | 46,958 |
| STURGEON | 23,500 | 3,532 | 172,100 | 18,301 | 134,700 | 20,831 |
| SUCKERS | - | - | - | - | 27,600 | 386 |
| TOMCOD | 58,100 | 1,163 | - | - | - | - |
| TUNA, ALBACORE | 133,500 | 24,968 | 295,900 | 54,745 | 27,000 | 4,729 |
| TOTAL FISH | 90,916,100 | 12,497,566 | 6,604,800 | 1,942,677 | 4,920,200 | 1,113,902 |
| SHELLFISH | | | | | | |
| CRABS, DUNGENESS 1/ | 1,638,400 | 222,827 | 5,123,600 | 796,665 | 346,500 | 53,359 |
| CRAWFISH, FRESH-WATER | - | - | - | - | 2,200 | 497 |
| SHRIMP: | | | | | | |
| BAY | 26,600 | 11,799 | - | - | - | - |
| OCEAN | - | - | 1,436,700 | 118,799 | - | - |
| CLAMS: | | | | | | |
| HARD: 2/ | | | | | | |
| BUTTER | 72,200 | 18,492 | - | - | - | - |
| LITTLE NECK | 248,000 | 114,039 | - | - | - | - |
| MANILA | 72,900 | 31,206 | 6,200 | 3,528 | - | - |
| RAZOR 3/ | - | - | 281,100 | 132,526 | - | - |
| TOTAL CLAMS | 393,100 | 163,737 | 289,300 | 136,054 | - | - |
| OCTOPUS | 24,800 | 3,294 | 100 | 10 | - | - |
| OYSTERS, MARKET: 4/ | | | | | | |
| PACIFIC | 2,957,900 | 536,110 | 5,661,600 | 1,021,058 | - | - |
| WESTERN | 38,100 | 95,175 | - | - | - | - |
| TOTAL OYSTERS | 2,996,000 | 631,285 | 5,661,600 | 1,021,058 | - | - |
| SCALLOPS, BAY 5/ | 300 | 309 | - | - | - | - |
| SQUID | 400 | 49 | - | - | - | - |
| TOTAL SHELLFISH | 5,079,600 | 1,033,300 | 12,511,300 | 2,074,586 | 348,700 | 53,856 |
| GRAND TOTAL | 95,995,700 | 13,530,866 | 19,116,100 | 4,017,263 | 5,268,900 | 1,167,758 |

1/ BASED ON AN AVERAGE YIELD OF 22 POUNDS PER DOZEN IN THE FUGET SOUND DISTRICT AND 24 POUNDS PER DOZEN IN THE COASTAL AND COLUMBIA RIVER DISTRICTS.

2/ BASED ON A YIELD OF 25 PERCENT MEATS.

3/ BASED ON A YIELD OF 42 PERCENT MEATS.

4/ BASED ON A YIELD OF 10 PERCENT MEATS IN THE FUGET SOUND DISTRICT AND 12 PERCENT MEATS IN THE COASTAL DISTRICT.

5/ BASED ON A YIELD OF 17 PERCENT MEATS.

PACIFIC COAST FISHERIES

295

PUGET SOUND DISTRICT OF WASHINGTON OPERATING UNITS, 1961

| ITEM | HAUL SEINES 1/ | PURSE SEINES | | BEAM TRAWLS | OTTER TRAWLS | BRUSH WEIRS |
|------------------------------------|----------------|--------------|---------|-------------|--------------|-------------|
| | | HERRING | SALMON | | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: ON VESSELS | 21 | 26 | 2,207 | 2 | 442 | - |
| ON BOATS AND SHORE | 300 | - | - | - | - | 6 |
| TOTAL | 321 | 26 | 2,207 | 2 | 442 | 6 |
| VESSELS, MOTOR | 7 | 4 | 324 | 1 | 118 | - |
| GROSS TONNAGE | - | 160 | 12,013 | 12 | 5,847 | - |
| BOATS: | | | | | | |
| MOTOR | 88 | 4 | 324 | - | - | 1 |
| OTHER | 35 | - | - | - | - | - |
| GEAR: | | | | | | |
| NUMBER | 130 | 4 | 324 | 1 | 118 | 1 |
| LENGTH, YARDS | 9,500 | 1,735 | 171,720 | - | - | - |
| YARDS AT MOUTH | - | - | - | 8 | 2,589 | - |

| ITEM | POUND NETS 2/ | POTS | | | GILL NETS | | |
|------------------------------------|---------------|--------|---------|--------|----------------------|--------|---------------|
| | | CRAB | OCTOPUS | SHRIMP | ANCHOR, SET OR STAKE | | DRIFT, SALMON |
| | | | | | SALMON 2/ | SHARK | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| FISHERMEN: ON VESSELS | - | 59 | - | - | - | - | 283 |
| ON BOATS AND SHORE | 12 | 96 | 5 | 5 | 215 | 7 | 725 |
| TOTAL | 12 | 155 | 5 | 5 | 215 | 7 | 1,008 |
| VESSELS, MOTOR | - | 27 | - | - | - | - | 222 |
| GROSS TONNAGE | - | 673 | - | - | - | - | 2,346 |
| BOATS: | | | | | | | |
| MOTOR | 3 | 66 | 3 | 4 | 150 | 7 | 629 |
| OTHER | - | 2 | - | - | 65 | - | 5 |
| GEAR: | | | | | | | |
| NUMBER | 3 | 6,900 | 100 | 140 | 215 | 7 | 856 |
| SQUARE YARDS | - | - | - | - | 54,000 | 7,000 | 5,088,000 |

| ITEM | LINES | | | | DIP NETS | REEF NETS |
|------------------------------------|--------|--------|----------|-------------|----------|-----------|
| | HAND | TROLL | | LONG OR SET | | |
| | | SALMON | ALBACORE | | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| FISHERMEN: ON VESSELS | 10 | 597 | 100 | 667 | 19 | - |
| ON BOATS AND SHORE | 30 | 480 | - | - | 9 | 400 |
| TOTAL | 40 | 1,077 | 100 | 667 | 28 | 400 |
| VESSELS, MOTOR | 8 | 381 | 50 | 117 | 6 | - |
| GROSS TONNAGE | 78 | 5,707 | 1,171 | 5,370 | 62 | - |
| BOATS: | | | | | | |
| MOTOR | 27 | 403 | - | - | 4 | - |
| OTHER | - | - | - | - | - | 200 |
| GEAR: | | | | | | |
| NUMBER | 84 | 3,786 | 443 | 4,548 | 28 | 100 |
| HOOKS | 168 | 15,050 | 443 | 371,059 | - | - |

| ITEM | DREDGES | | | SHOVELS | BY HAND, OYSTER | TOTAL, EXCLUSIVE OF DUPLICATION |
|------------------------------------|---------|--------|---------|---------|-----------------|---------------------------------|
| | CLAM | OYSTER | | | | |
| | | COMMON | SUCTION | | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| FISHERMEN: ON VESSELS | 2 | 14 | 3 | - | - | 3,938 |
| ON BOATS AND SHORE | 4 | 9 | - | 254 | 168 | 2,610 |
| TOTAL | 6 | 23 | 3 | 254 | 168 | 6,548 |
| VESSELS, MOTOR | 1 | 5 | 1 | - | - | 1,088 |
| GROSS TONNAGE | 8 | 106 | 41 | - | - | 28,568 |
| BOATS: | | | | | | |
| MOTOR | 2 | 4 | - | - | 43 | 1,664 |
| OTHER | - | - | - | - | 20 | 327 |
| GEAR: | | | | | | |
| NUMBER | 3 | 18 | 1 | 254 | - | - |
| YARDS AT MOUTH | 3 | 36 | - | - | - | - |

1/ INCLUDES 52 HAUL SEINES OPERATED ON INDIAN RESERVATIONS.

2/ FISHED ONLY ON INDIAN RESERVATIONS.

PACIFIC COAST FISHERIES

PUGET SOUND DISTRICT OF WASHINGTON - CATCH BY GEAR, 1961

| SPECIES | HAUL SEINES 1/ | | PURSE SEINES | | BEAM TRAWLS | |
|---------------------------------|----------------|---------|--------------|-----------|-------------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| FLOUNDERS: | | | | | | |
| "SOLE" | 100 | \$6 | - | - | - | - |
| OTHER | 200 | 9 | - | - | - | - |
| HERRING, SEA. | 246,800 | 61,688 | 3,148,800 | \$36,568 | - | - |
| LINGCOD | - | - | 300 | 14 | - | - |
| PERCH | 157,200 | 20,431 | - | - | - | - |
| ROCKFISHES. | 2,000 | 78 | - | - | - | - |
| SALMON: | | | | | | |
| CHINOOK OR KING | 145,900 | 51,052 | 385,300 | 96,316 | - | - |
| CHUM OR KETA. | 23,300 | 4,201 | 647,900 | 142,545 | - | - |
| PINK. | 527,300 | 85,429 | 2,395,200 | 368,019 | - | - |
| RED OR SOCKEYE. | - | - | 4,797,600 | 1,564,007 | - | - |
| SILVER OR COHO. | 153,100 | 42,881 | 989,500 | 276,775 | - | - |
| SHARKS, GRAYFISH 3/ | - | - | 600 | 3 | - | - |
| SMELT, SURF OR SILVER | 66,100 | 8,002 | - | - | - | - |
| SHRIMP, BAY | - | - | - | - | 8,000 | \$2,728 |
| SCALLOPS, BAY 7/ | - | - | - | - | 300 | 309 |
| TOTAL | 1,322,000 | 273,777 | 12,364,200 | 2,504,247 | 8,300 | 3,037 |

| SPECIES | OTTER TRAWLS | | BRUSH WEIRS | | POUND NETS 2/ | |
|-------------------------------|--------------|-----------|-------------|---------|---------------|----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| COD | 2,950,700 | \$144,565 | - | - | - | - |
| FLOUNDERS: | | | | | | |
| "SOLE" | 15,248,900 | 956,927 | - | - | - | - |
| OTHER | 1,170,900 | 56,201 | - | - | - | - |
| HERRING, SEA. | 158,400 | 1,108 | - | - | - | - |
| HAKE. | - | - | 103,600 | \$9,511 | - | - |
| LINGCOD | 4,720,400 | 236,419 | - | - | - | - |
| OCEAN PERCH | 7,860,000 | 392,998 | - | - | - | - |
| PERCH | 4,500 | 558 | - | - | - | - |
| RATFISH | 1,130,400 | 7,913 | - | - | - | - |
| ROCKFISHES. | 6,579,700 | 269,975 | - | - | - | - |
| SABLEFISH | 726,200 | 51,567 | - | - | - | - |
| SALMON: | | | | | | |
| CHINOOK OR KING | - | - | - | - | 115,700 | \$40,496 |
| CHUM OR KETA. | - | - | - | - | 2,100 | 383 |
| PINK. | - | - | - | - | 205,300 | 33,256 |
| RED OR SOCKEYE. | - | - | - | - | 1,400 | 455 |
| SILVER OR COHO. | - | - | - | - | 117,400 | 32,660 |
| SHAD. | 100 | 5 | - | - | - | - |
| SHARKS, GRAYFISH 3/ | 767,700 | 3,838 | - | - | - | - |
| SKATES. | 499,600 | 2,498 | - | - | - | - |
| STURGEON. | 23,300 | 3,502 | - | - | - | - |
| TOMCO. | 56,100 | 1,163 | - | - | - | - |
| OCTOPUS | 10,900 | 1,089 | - | - | - | - |
| SQUID | 400 | 49 | - | - | - | - |
| TOTAL | 41,910,200 | 2,130,395 | 103,600 | 9,511 | 441,900 | 107,450 |

| SPECIES | POTS | GILL NETS | | | |
|-------------------------------|-----------|----------------------|-----------|-----------|-------|
| | | ANCHOR, SET OR STAKE | | | |
| | | SALMON 2/ | | SHARK | |
| | | POUNDS | VALUE | POUNDS | VALUE |
| COD | - | - | - | 7,700 | \$377 |
| LINGCOD | - | - | - | 6,600 | 331 |
| ROCKFISHES. | - | - | - | 4,100 | 160 |
| SALMON: | | | | | |
| CHINOOK OR KING | - | - | 363,700 | \$127,302 | - |
| CHUM OR KETA. | - | - | 403,200 | 72,567 | - |
| PINK. | - | - | 397,600 | 64,404 | - |
| RED OR SOCKEYE. | - | - | 3,500 | 1,143 | - |
| SILVER OR COHO. | - | - | 515,300 | 144,274 | - |
| STEELHEAD TROUT | - | - | 64,200 | 17,972 | - |
| STURGEON. | - | - | 100 | 15 | - |
| CRABS, DUNGENESS 4/ | 1,638,400 | \$222,827 | - | - | - |
| SHRIMP, BAY | 18,600 | 9,071 | - | - | - |
| OCTOPUS | 13,700 | 2,185 | - | - | - |
| TOTAL | 1,670,700 | 234,083 | 1,747,600 | 427,677 | 868 |

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PACIFIC COAST FISHERIES

297

PUGET SOUND DISTRICT OF WASHINGTON

CATCH BY GEAR, 1961 - Continued

| SPECIES | GILL NETS - CONTINUED | | LINES | | | |
|--|-----------------------|-----------|--------|---------|-----------|-----------|
| | | | HAND | | TROLL | |
| | DRIFT | | | | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| COD | - | - | - | - | 300 | \$15 |
| HALIBUT | - | - | 33,300 | \$4,756 | 303,600 | 43,378 |
| LINGCOD | 600 | \$30 | 34,700 | 3,946 | 787,600 | 38,853 |
| ROCKFISHES | - | - | 10,700 | 373 | 53,100 | 1,600 |
| SALMON: | | | | | | |
| CHINOOK OR KING | 547,400 | 207,995 | - | - | 1,059,300 | 507,019 |
| CHUM OR KETA | 426,200 | 95,895 | - | - | 400 | 88 |
| PINK | 749,500 | 127,412 | - | - | 342,700 | 85,678 |
| RED OR SOCKEYE | 2,623,000 | 920,314 | - | - | 6,200 | 2,380 |
| SILVER OR COHO | 1,519,600 | 455,876 | - | - | 1,764,100 | 542,785 |
| SHARKS, GRAYFISH ^{3/} | 22,400 | 112 | - | - | - | - |
| STURGEON | 100 | 15 | - | - | - | - |
| TUNA, ALBACORE | - | - | - | - | 133,500 | 24,968 |
| OCTOPUS | - | - | 200 | 20 | - | - |
| TOTAL | 6,088,800 | 1,807,649 | 78,900 | 9,095 | 4,450,800 | 1,246,764 |

| SPECIES | LINES - CONTINUED | | DIP NETS | | REEF NETS | |
|---|-------------------|-----------|----------|----------|-----------|---------|
| | LONG OR SET | | | | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| FLOUNDERS, "SOLE" | 600 | \$53 | - | - | - | - |
| HALIBUT | 18,948,100 | 3,388,414 | - | - | - | - |
| HERRING, SEA | - | - | 107,500 | \$26,875 | - | - |
| LINGCOD | 37,100 | 1,298 | - | - | - | - |
| ROCKFISHES | 80,200 | 2,803 | - | - | - | - |
| SABLEFISH | 2,441,000 | 344,596 | - | - | - | - |
| SALMON: | | | | | | |
| CHINOOK OR KING | - | - | - | - | 22,700 | \$5,665 |
| CHUM OR KETA | - | - | - | - | 20,300 | 4,466 |
| PINK | - | - | - | - | 191,300 | 31,027 |
| RED OR SOCKEYE | - | - | - | - | 472,600 | 154,076 |
| SILVER OR COHO | - | - | - | - | 78,300 | 21,930 |
| SHARKS, SOUPFIN ^{3/} | 1,300 | 88 | - | - | - | - |
| TOTAL | 21,508,300 | 3,737,252 | 107,500 | 26,875 | 785,400 | 217,164 |

| SPECIES | DREDGES AND BY HAND | | SHOVELS | |
|--------------------------------|----------------------------|---------|---------|----------|
| | POUNDS | VALUE | POUNDS | VALUE |
| | CLAMS, HARD: ^{5/} | | | |
| BUTTER | 30,000 | \$7,693 | 42,200 | \$10,799 |
| LITTLENECK | 33,000 | 15,161 | 215,000 | 98,878 |
| MANILA | - | - | 72,900 | 31,206 |
| OYSTERS, MARKET: ^{6/} | | | | |
| PACIFIC | 2,957,900 | 536,110 | - | - |
| WESTERN | 38,100 | 95,175 | - | - |
| TOTAL | 3,059,000 | 654,139 | 330,100 | 140,883 |

^{1/} THE SALMON CAUGHT BY HAUL SEINES WERE TAKEN ON INDIAN RESERVATIONS.

^{2/} FISHED ONLY ON INDIAN RESERVATIONS.

^{3/} THE POUNDAGE SHOWN INCLUDES THE TOTAL VOLUME OF SHARKS CAUGHT. SOME OF THE CARCASSES WERE DISCARDED AT SEA.

^{4/} BASED ON AN AVERAGE OF 22 POUNDS PER DOZEN.

^{5/} BASED ON A YIELD OF 25 PERCENT MEATS.

^{6/} BASED ON A YIELD OF 10 PERCENT MEATS FOR PACIFIC OYSTERS AND 18 PERCENT FOR WESTERN OR NATIVE OYSTERS.

^{7/} BASED ON A YIELD OF 17 PERCENT MEATS.

NOTE:--THE POUNDAGE AND VALUE OF THE CATCH SHOWN ABOVE INCLUDE THE FOLLOWING ITEMS: HALIBUT LIVERS, 3,779 POUNDS, VALUE \$869; LINGCOD LIVERS, 2,400 POUNDS, VALUE \$470, AND SOUPFIN SHARK LIVERS, 155 POUNDS, VALUE \$88.

PACIFIC COAST FISHERIES

COASTAL DISTRICT OF WASHINGTON - OPERATING UNITS, 1961

| ITEM | HAUL SEINES | OTTER TRAWLS | |
|------------------------------|---------------|---------------|---------------|
| | | FISH | SHRIMP |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: | | | |
| ON VESSELS | 3 | 17 | 25 |
| ON BOATS AND SHORE | 36 | - | - |
| TOTAL | 41 | 17 | 25 |
| VESSELS, MOTOR | 1 | 5 | 8 |
| GROSS TONNAGE | 7 | 224 | 333 |
| BOATS: | | | |
| MOTOR | 12 | - | - |
| OTHER | 2 | - | - |
| GEAR: | | | |
| NUMBER | 13 | 5 | 8 |
| LENGTH, YARDS | 1,350 | - | - |
| YARDS AT MOUTH | - | 112 | 152 |

| ITEM | POTS, CRAB | GILL NETS | |
|------------------------------|---------------|-------------------------|---------------|
| | | ANCHOR, SET OR STAKE 1/ | DRIFT |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: | | | |
| ON VESSELS | 152 | - | 12 |
| ON BOATS AND SHORE | 35 | 220 | 270 |
| TOTAL | 167 | 220 | 282 |
| VESSELS, MOTOR | 59 | - | 10 |
| GROSS TONNAGE | 1,226 | - | 92 |
| BOATS: | | | |
| MOTOR | 19 | 164 | 256 |
| OTHER | - | 30 | 10 |
| GEAR: | | | |
| NUMBER | 16,565 | 214 | 276 |
| SQUARE YARDS | - | 48,150 | 556,400 |

| ITEM | HAND | LINES | | DIP NETS 2/ |
|------------------------------|---------------|---------------|---------------|----------------|
| | | TROLL | | |
| | | SALMON | ALBACORE | |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: | | | | |
| ON VESSELS | - | 495 | 98 | - |
| ON BOATS AND SHORE | 6 | 203 | - | 5 |
| TOTAL | 6 | 698 | 98 | 5 |
| VESSELS, MOTOR | - | 312 | 52 | - |
| GROSS TONNAGE | - | 4,731 | 1,039 | - |
| BOATS: | | | | |
| MOTOR | 1 | 169 | - | 2 |
| OTHER | 2 | - | - | - |
| GEAR: | | | | |
| NUMBER | 12 | 2,364 | 453 | 5 |
| HOOKS | 24 | 10,050 | 453 | - |

| ITEM | DREDGES, OYSTER | SHOVELS, CLAM | BY HAND, OYSTER | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|------------------------------|--------------------|------------------|--------------------|--|
| | | | | <u>NUMBER</u> |
| FISHERMEN: | | | | |
| ON VESSELS | 57 | - | - | 695 |
| ON BOATS AND SHORE | 12 | 1,069 | 180 | 2,011 |
| TOTAL | 69 | 1,069 | 180 | 2,706 |
| VESSELS, MOTOR | 20 | - | - | 365 |
| GROSS TONNAGE | 419 | - | - | 6,383 |
| BOATS: | | | | |
| MOTOR | 6 | - | 44 | 679 |
| OTHER | - | - | 65 | 109 |
| GEAR: | | | | |
| NUMBER | 52 | 1,069 | - | - |
| YARDS AT MOUTH | 104 | - | - | - |

1/ OPERATED ON INDIAN RESERVATIONS.

2/ INCLUDES 2 DIP NETS OPERATED ON INDIAN RESERVATIONS.

PACIFIC COAST FISHERIES

299

COASTAL DISTRICT OF WASHINGTON - CATCH BY GEAR, 1961

| SPECIES | HAUL SEINES | | OTTER TRAWLS | | POTS | |
|--------------------------------------|-------------|--------|--------------|---------|-----------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| COD | - | - | 4,100 | \$205 | - | - |
| FLOUNDERS: | | | | | | |
| "SOLE" | - | - | 44,000 | 3,448 | - | - |
| OTHER | - | - | 3,300 | 158 | - | - |
| LINGCOD | - | - | 24,900 | 1,245 | - | - |
| OCEAN PERCH | - | - | 10,900 | 437 | - | - |
| PERCH | 13,000 | \$730 | - | - | - | - |
| ROCKFISHES | - | - | 197,800 | 7,584 | - | - |
| SABLEFISH | - | - | 13,700 | 980 | - | - |
| SMELT, SURF OR SILVER | 157,000 | 12,600 | - | - | - | - |
| CRABS, DUNGENESS <u>2/</u> | - | - | - | - | 5,123,600 | \$798,665 |
| SHRIMP, OCEAN | - | - | 1,436,700 | 116,799 | - | - |
| OCTOPUS | - | - | 100 | 10 | - | - |
| TOTAL | 170,000 | 13,330 | 1,735,500 | 132,866 | 5,123,600 | 798,665 |

| SPECIES | GILL NETS | | | | LINES | | | |
|-------------------------------------|--------------------------------|----------|-----------|---------|--------|-------|-----------|-----------|
| | ANCHOR, SET OR STAKE <u>1/</u> | | DRIFT | | HAND | | TROLL | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| HALIBUT | - | - | - | - | - | - | 79,600 | \$10,025 |
| LINGCOD | - | - | 900 | \$45 | - | - | 193,900 | 7,945 |
| PERCH | - | - | - | - | 1,900 | \$117 | - | - |
| ROCKFISHES | - | - | 100 | 3 | - | - | 139,900 | 4,476 |
| SALMON: | | | | | | | | |
| CHINOOK OR KING | 195,200 | \$74,169 | 302,500 | 108,710 | - | - | 1,310,600 | 638,578 |
| CHUM OR KETA | 59,500 | 10,714 | 400,300 | 71,987 | - | - | 200 | 45 |
| PINK | 100 | 16 | - | - | - | - | 105,900 | 20,627 |
| RED OR SOCKEYE | 152,600 | 78,289 | - | - | - | - | 200 | 72 |
| SILVER OR COHO | 472,600 | 141,791 | 538,700 | 159,352 | - | - | 1,552,600 | 477,690 |
| SHAD | 1,600 | 80 | - | - | - | - | - | - |
| STEELHEAD TROUT <u>1/</u> | 122,900 | 34,421 | - | - | - | - | - | - |
| STURGEON | - | - | 172,100 | 18,301 | - | - | - | - |
| TUNA, ALBACORE | - | - | - | - | - | - | 295,900 | 54,745 |
| TOTAL | 1,004,500 | 339,480 | 1,414,600 | 358,398 | 1,900 | 117 | 3,679,200 | 1,214,403 |

| SPECIES | DIP NETS | | DREDGES AND BY HAND | | SHOVELS | |
|--|----------|-------|---------------------|-------------|---------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| SMELT: | | | | | | |
| EULACHON | 1,100 | \$108 | - | - | - | - |
| SURF OR SILVER | 34,600 | 2,764 | - | - | - | - |
| CLAMS: | | | | | | |
| MANILA <u>3/</u> | - | - | - | - | 8,200 | \$3,528 |
| RAZOR <u>4/</u> | - | - | - | - | 281,100 | 132,526 |
| OYSTERS, MARKET, PACIFIC <u>5/</u> | - | - | 5,661,600 | \$1,021,058 | - | - |
| TOTAL | 35,900 | 2,892 | 5,661,600 | 1,021,058 | 289,300 | 136,054 |

1/ FISHED ONLY ON INDIAN RESERVATIONS.

2/ BASED ON AN AVERAGE OF 24 POUNDS PER DOZEN.

3/ BASED ON A YIELD OF 25 PERCENT MEATS.

4/ BASED ON A YIELD OF 42 PERCENT EDIBLE MEATS.

5/ BASED ON A YIELD OF 12 PERCENT MEATS.

PACIFIC COAST FISHERIES

COLUMBIA RIVER DISTRICT OF WASHINGTON

OPERATING UNITS, 1961

| ITEM | HAUL SEINES | POUND NETS ^{1/} | POTS | |
|------------------------------|---------------------------------------|-----------------------------|------------------------------|--|
| | | | CRAB | CRAWFISH |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: | | | | |
| ON VESSELS | - | - | 30 | - |
| ON BOATS AND SHORE | 18 | 12 | 6 | 2 |
| TOTAL | 18 | 12 | 36 | 2 |
| VESSELS, MOTOR | - | - | 12 | - |
| GROSS TONNAGE | - | - | 201 | - |
| BOATS: | | | | |
| MOTOR | 7 | 3 | 3 | 2 |
| OTHER | 2 | - | - | - |
| GEAR: | | | | |
| NUMBER | 9 | 3 | 1,950 | 75 |
| LENGTH, YARDS | 900 | - | - | - |
| ITEM | GILL NETS | | | LINES |
| | ANCHOR, SET OR STAKE ^{2/} | DRIFT | | TROLL |
| | | SALMON | SMELT | SALMON |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: | | | | |
| ON VESSELS | - | - | - | 86 |
| ON BOATS AND SHORE | 9 | 171 | 2 | 135 |
| TOTAL | 9 | 171 | 2 | 223 |
| VESSELS, MOTOR | - | - | - | 61 |
| GROSS TONNAGE | - | - | - | 725 |
| BOATS, MOTOR | 8 | 162 | 2 | 118 |
| GEAR: | | | | |
| NUMBER | 8 | 162 | 2 | 786 |
| SQUARE YARDS | 2,000 | 494,100 | 1,800 | - |
| HOOKS | - | - | - | 3,010 |
| ITEM | LINES - CONTINUED | | DIP NETS ^{3/} | TOTAL, EXCLUSIVE OF DUPLI- CATION |
| | TROLL - CONTINUED | LONG OR SET | | |
| | ALBACORE | | | |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: | | | | |
| ON VESSELS | 8 | - | - | 111 |
| ON BOATS AND SHORE | - | 1 | 204 | 510 |
| TOTAL | 8 | 1 | 204 | 621 |
| VESSELS, MOTOR | 4 | - | - | 69 |
| GROSS TONNAGE | 101 | - | - | 860 |
| BOATS: | | | | |
| MOTOR | - | 1 | 40 | 299 |
| OTHER | - | - | 2 | 2 |
| GEAR: | | | | |
| NUMBER | 36 | 3 | 204 | - |
| HOOKS | 36 | 300 | - | - |

^{1/} OPERATED BY FEDERAL FISH HATCHERY.

^{2/} OPERATED ON INDIAN RESERVATIONS.

^{3/} INCLUDES 76 DIP NETS OPERATED BY INDIANS.

PACIFIC COAST FISHERIES

301

COLUMBIA RIVER DISTRICT OF WASHINGTON CATCH BY GEAR, 1961

| SPECIES | HAUL SEINES | | POUND NETS 1/ | |
|---------------------------------|-----------------------|----------|-------------------------|----------|
| | POUNDS | VALUE | POUNDS | VALUE |
| CARP | 797,600 | \$9,574 | - | - |
| SALMON: | | | | |
| CHINOOK OR KING | - | - | 35,300 | \$3,534 |
| SILVER OR COHO | - | - | 300 | 34 |
| SUCKERS | 27,600 | 386 | - | - |
| TOTAL | 825,400 | 9,960 | 35,600 | 3,568 |
| SPECIES | POTS | | GILL NETS | |
| | | | ANCHOR, SET OR STAKE 2/ | |
| | POUNDS | VALUE | POUNDS | VALUE |
| SALMON: | | | | |
| CHINOOK OR KING | - | - | 1,300 | \$465 |
| RED OR SOCKEYE | - | - | 600 | 240 |
| CRABS, DUNGNESS 3/ | 346,500 | \$53,359 | - | - |
| CRAWFISH, FRESH-WATER | 2,200 | 497 | - | - |
| TOTAL | 348,700 | 53,856 | 1,900 | 705 |
| | GILL NETS - CONTINUED | | LINES | |
| | DRIFT | | TROLL | |
| | POUNDS | VALUE | POUNDS | VALUE |
| CARP | 200 | \$2 | - | - |
| FLOUNDERS | 13,500 | 311 | - | - |
| HALIBUT | - | - | 5,300 | \$594 |
| LINGCOD | - | - | 13,600 | 429 |
| ROCKFISHES | 100 | 2 | 89,100 | 1,872 |
| SALMON: | | | | |
| CHINOOK OR KING | 1,246,700 | 461,290 | 174,600 | 84,296 |
| CHUM OR KETA | 5,400 | 881 | - | - |
| PINK | - | - | 100 | 19 |
| RED OR SOCKEYE | 51,500 | 20,609 | - | - |
| SILVER OR COHO | 105,300 | 29,440 | 862,400 | 257,974 |
| SHAD | 165,600 | 14,822 | - | - |
| SMELT, EULACHON | 96,800 | 13,553 | - | - |
| STEELHEAD TROUT | 175,800 | 45,716 | 200 | 52 |
| STURGEON | 134,300 | 20,739 | - | - |
| TUNA, ALBACORE | - | - | 27,000 | 4,729 |
| TOTAL | 1,995,200 | 606,365 | 1,172,300 | 349,965 |
| SPECIES | LINES - CONTINUED | | DIP NETS | |
| | LONG OR SET | | | |
| | POUNDS | VALUE | POUNDS | VALUE |
| SALMON: | | | | |
| CHINOOK OR KING | - | - | 103,300 | \$36,165 |
| RED OR SOCKEYE | - | - | 300 | 117 |
| SILVER OR COHO | - | - | 6,900 | 1,735 |
| SMELT, EULACHON | - | - | 774,300 | 104,040 |
| STEELHEAD TROUT | - | - | 4,600 | 1,190 |
| STURGEON | 400 | \$92 | - | - |
| TOTAL | 400 | 92 | 669,400 | 143,247 |

1/ OPERATED BY FEDERAL FISH HATCHERY. CATCH REPRESENTS SPAWNED SALMON SOLD TO CANNERIES.

2/ FISHED ONLY ON INDIAN RESERVATIONS.

3/ BASED ON AN AVERAGE OF 24 POUNDS PER DOZEN.

PACIFIC COAST FISHERIES

OREGON

CATCH BY DISTRICTS, 1961

| SPECIES | COLUMBIA RIVER | | COASTAL | |
|---------------------------------|----------------|-----------|------------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE |
| COD | 101,400 | \$4,564 | 2,700 | \$108 |
| FLOUNDERS: | | | | |
| "SOLE" | 7,660,000 | 439,939 | 5,200,600 | 254,422 |
| OTHER | 479,800 | 17,024 | 121,700 | 4,870 |
| HAKE | 9,000 | 22 | 49,000 | 1,225 |
| HALIBUT | 196,600 | 31,732 | 244,200 | 40,448 |
| HERRING, SEA | - | - | 18,300 | 4,500 |
| LINGCOD | 468,000 | 22,051 | 250,000 | 10,377 |
| OCEAN PERCH | 2,630,700 | 116,384 | 1,941,600 | 62,139 |
| PEPCH | - | - | 3,600 | 285 |
| ROCKFISHES | 3,553,100 | 140,747 | 3,319,300 | 118,676 |
| SABLEFISH | 128,200 | 11,328 | 439,600 | 39,019 |
| SALMON: | | | | |
| CHINOOK OR KING | 3,000,700 | 1,109,101 | 1,309,000 | 658,209 |
| CUM OR KETA | 12,000 | 1,917 | 16,900 | 2,371 |
| PINK | 100 | 22 | 100 | 21 |
| RED OR SOCKEYE | 106,200 | 42,468 | - | - |
| SILVER OR COHO | 710,600 | 206,642 | 1,692,500 | 557,766 |
| TOTAL SALMON | 3,829,600 | 1,360,150 | 3,218,500 | 1,218,367 |
| SEA BASS, WHITE | 400 | 32 | - | - |
| SHAD | 240,700 | 24,066 | 519,100 | 77,862 |
| SHARKS: | | | | |
| GRAYFISH | 50,300 | 377 | - | - |
| SOUFFIN | 200 | 2 | - | - |
| SKATES | 178,600 | 4,470 | 153,100 | 3,767 |
| SMELTS: | | | | |
| EULACHON | 181,400 | 27,205 | - | - |
| SILVER | - | - | 2,200 | 219 |
| STEELHEAD TROUT | 535,000 | 136,415 | 7,800 | 1,931 |
| STRIPED BASS | - | - | 32,900 | 3,619 |
| STURGEON | 206,000 | 30,258 | 1,600 | 131 |
| TUNA, ALBACORE | 1,470,600 | 279,427 | 1,780,600 | 311,602 |
| TOTAL FISH | 21,940,000 | 2,648,193 | 17,306,600 | 2,173,567 |
| SHELLFISH | | | | |
| CRABS, DUNGENESS 1/ | 1,412,000 | 218,868 | 7,676,300 | 1,260,212 |
| CRAWFISH, FRESH-WATER | 21,000 | 6,100 | - | - |
| SHRIMP, OCEAN | 772,200 | 63,300 | 692,200 | 55,373 |
| CLAMS: | | | | |
| RAZOR 2/ | - | - | 16,100 | 7,700 |
| MIXED 3/ | - | - | 9,800 | 5,610 |
| TOTAL | - | - | 25,900 | 13,310 |
| OCTOPUS | 100 | 8 | 100 | 8 |
| OYSTERS, MARKET, PACIFIC 4/ | - | - | 328,500 | 72,268 |
| TOTAL SHELLFISH | 2,205,300 | 288,276 | 8,923,000 | 1,401,171 |
| WHALE PRODUCTS: | | | | |
| MEAL | 34,000 | 1,716 | - | - |
| MEAT | 65,800 | 4,274 | - | - |
| OIL: 5/ | | | | |
| SPEERM | 30,700 | 2,607 | - | - |
| WHALE | 8,800 | 529 | - | - |
| SOLUBLES | 28,000 | 552 | - | - |
| TOTAL WHALE PRODUCTS | 167,300 | 9,678 | - | - |
| GRAND TOTAL | 24,312,600 | 2,946,147 | 26,229,600 | 3,574,738 |

1/ BASED ON AN AVERAGE OF 25 POUNDS PER DOZEN.

2/ BASED ON A YIELD OF 42 PERCENT MEATS.

3/ PRINCIPALLY EASTERN SOFT CLAMS. BASED ON A YIELD OF 21 PERCENT MEATS.

4/ BASED ON A YIELD OF 12 PERCENT MEATS.

5/ CONVERTED TO POUNDS ON THE BASIS OF 7.5 POUNDS PER GALLON.

PACIFIC COAST FISHERIES

303

COLUMBIA RIVER DISTRICT OF OREGON - OPERATING UNITS, 1961

| ITEM | OTTER TRAWLS | | POTS | | |
|-------------------------------|-----------------------|-----------|------------------|----------|---------------------------------|
| | FISH | SHRIMP | CRAB | | |
| | NUMBER | NUMBER | NUMBER | | |
| FISHERMEN: | | | | | |
| ON VESSELS | 110 | 22 | 61 | | |
| ON BOATS AND SHORE | - | - | 32 | | |
| TOTAL | 110 | 22 | 93 | | |
| VESSELS, MOTOR | 31 | 6 | 27 | | |
| GROSS TONNAGE | 1,558 | 324 | 419 | | |
| BOATS, MOTOR | - | - | 18 | | |
| GEAR: | | | | | |
| NUMBER | 31 | 6 | 7,900 | | |
| YARDS AT MOUTH | 698 | 114 | - | | |
| ITEM | POTS - CONTINUED | | GILL NETS, DRIFT | | |
| | CRAWFISH | SALMON | SMELT | | |
| | NUMBER | NUMBER | NUMBER | | |
| FISHERMEN, ON BOATS AND SHORE | | | | | |
| TOTAL | 16 | 671 | 75 | | |
| TOTAL | 16 | 671 | 75 | | |
| BOATS: | | | | | |
| MOTOR | 13 | 610 | 75 | | |
| OTHER | 1 | - | - | | |
| GEAR: | | | | | |
| NUMBER | 560 | 610 | 75 | | |
| SQUARE YARDS | - | 1,660,500 | 67,500 | | |
| ITEM | LINES | | | | |
| | TROLL | | LONG OR SET | | |
| | SALMON | ALBACORE | HALIBUT | | |
| | NUMBER | NUMBER | NUMBER | | |
| FISHERMEN: | | | | | |
| ON VESSELS | 101 | 206 | 8 | | |
| ON BOATS AND SHORE | 56 | 4 | - | | |
| TOTAL | 157 | 210 | 8 | | |
| VESSELS, MOTOR | 63 | 88 | 2 | | |
| GROSS TONNAGE | 949 | 3,111 | 52 | | |
| BOATS, MOTOR | 47 | 3 | - | | |
| GEAR: | | | | | |
| NUMBER | 538 | 870 | 38 | | |
| HOOKS | 2,300 | 870 | 3,600 | | |
| ITEM | LINES - CONTINUED | | DIP NETS 1/ | HARPOONS | TOTAL, EXCLUSIVE OF DUPLICATION |
| | LONG OR SET-CONTINUED | | | | |
| | STURGEON | | | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | |
| FISHERMEN: | | | | | |
| ON VESSELS | - | - | 4 | 424 | |
| ON BOATS AND SHORE | 7 | 24 | - | 786 | |
| TOTAL | 7 | 24 | 4 | 1,210 | |
| VESSELS, MOTOR | - | - | 1 | 183 | |
| GROSS TONNAGE | - | - | 96 | 5,415 | |
| BOATS: | | | | | |
| MOTOR | 6 | - | - | 679 | |
| OTHER | 1 | - | - | 2 | |
| GEAR: | | | | | |
| NUMBER | 7 | 24 | 1 | - | |
| HOOKS | 700 | - | - | - | |

1/ INCLUDES 20 DIP NETS OPERATED BY INDIANS.

PACIFIC COAST FISHERIES

COLUMBIA RIVER DISTRICT OF OREGON - CATCH BY GEAR, 1961

| SPECIES | OTTER TRAWLS | | POTS | |
|---------------------------------|--------------|---------|-----------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE |
| COO | 101,400 | \$4,564 | - | - |
| FLOWNDERS: | | | | |
| "SOLE" | 7,660,000 | 439,939 | - | - |
| OTHER | 281,200 | 12,654 | - | - |
| HAKE | 9,000 | 22 | - | - |
| LINGCOD | 479,200 | 21,564 | - | - |
| OCEAN PERCH | 2,630,700 | 118,384 | - | - |
| ROCKFISHES | 3,530,500 | 139,672 | - | - |
| SABLEFISH | 98,500 | 7,402 | - | - |
| SHARKS: | | | | |
| GRAYFISH | 50,300 | 377 | - | - |
| SOUPFIN | 200 | 2 | - | - |
| SKATES | 178,600 | 4,470 | - | - |
| STURGEON | 38,300 | 2,591 | - | - |
| CRABS, DUNGINESS | - | - | 1,412,000 | \$218,868 |
| CRAWFISH, FRESH-WATER | - | - | 21,000 | 6,100 |
| SHRIMP, OCEAN | 772,200 | 63,300 | - | - |
| OCTOPUS | 100 | 8 | - | - |
| TOTAL | 15,830,200 | 815,149 | 1,433,000 | 224,968 |

| SPECIES | GILL NETS, DRIFT | | LINES | | | | | |
|----------------------------|---------------------|-----------|-----------|---------|-------------|----------|--------|-------|
| | | | TROLL | | LONG OR SET | | | |
| | | | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| FLOWNDERS, OTHER | 198,600 | \$4,370 | - | - | - | - | - | - |
| HALIBUT | - | - | 7,200 | \$838 | 189,400 | \$30,894 | - | - |
| LINGCOD | - | - | 6,900 | 399 | 1,900 | 88 | - | - |
| ROCKFISHES | - | - | 16,800 | 674 | 5,800 | 201 | - | - |
| SABLEFISH | - | - | - | - | 29,700 | 3,926 | - | - |
| SALMON: | | | | | | | | |
| CHINOOK OR KING | 2,797,600 | 1,035,120 | 114,600 | 56,272 | - | - | - | - |
| CHUM OR KETA | 11,600 | 1,857 | - | - | - | - | - | - |
| PINK | - | - | 100 | 22 | - | - | - | - |
| RED OR SOCKEYE | 106,200 | 42,468 | - | - | - | - | - | - |
| SILVER OR COHO | 275,100 | 74,275 | 434,900 | 132,199 | - | - | - | - |
| SEA BASS, WHITE | - | - | 600 | 32 | - | - | - | - |
| SHAD | 240,700 | 24,066 | - | - | - | - | - | - |
| SMELT, EULACHON | 181,400 | 27,205 | - | - | - | - | - | - |
| STEELHEAD TROUT | 524,000 | 133,624 | 800 | 240 | - | - | - | - |
| STURGEON | 154,900 | 24,626 | - | - | 9,400 | 2,353 | - | - |
| TUNA, ALBACORE | - | - | 1,470,600 | 279,427 | - | - | - | - |
| TOTAL | 4,490,100 | 1,367,611 | 2,052,700 | 470,103 | 236,200 | 37,462 | - | - |

| SPECIES | DIP NETS | | HARPOONS | |
|---------------------------|----------|----------|----------|---------|
| | POUNDS | VALUE | POUNDS | VALUE |
| SALMON: | | | | |
| CHINOOK OR KING | 68,500 | \$17,709 | - | - |
| CHUM OR KETA | 400 | 60 | - | - |
| SILVER OR COHO | 600 | 168 | - | - |
| STEELHEAD TROUT | 10,200 | 2,551 | - | - |
| STURGEON | 3,400 | 688 | - | - |
| WHALE PRODUCTS: | | | | |
| MEAL | - | - | 34,000 | \$1,716 |
| MEAT | - | - | 65,800 | 4,274 |
| OIL: | | | | |
| SPERM | - | - | 30,700 | 2,607 |
| WHALE | - | - | 8,800 | 529 |
| SOLUBLES | - | - | 28,000 | 552 |
| TOTAL | 103,100 | 21,176 | 167,300 | 9,678 |

NOTE:--THE FOLLOWING SPECIES LANDED IN THE COLUMBIA RIVER DISTRICT WERE CAUGHT OFF THE COAST: COO, "SOLE", HAKE, HALIBUT, LINGCOD, OCEAN PERCH, ROCKFISHES, SABLEFISH, SEA BASS, SHARKS, SKATES, TUNA, CRAB, SHRIMP, OCTOPUS, WHALES, THE OTTER TRAWL CATCH OF FLOWNDERS AND STURGEON, AND MOST OF THE TROLL CATCH OF SALMON.

PACIFIC COAST FISHERIES

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COASTAL DISTRICT OF OREGON - OPERATING UNITS, 1961

| ITEM | HAUL SEINES | OTTER TRAWLS | |
|------------------------------|----------------|---------------|---------------|
| | | FISH | SHRIMP |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: | | | |
| ON VESSELS | - | 88 | 15 |
| ON BOATS AND SHORE | 8 | - | - |
| TOTAL | 8 | 88 | 15 |
| VESSELS, MOTOR | - | 26 | 5 |
| GROSS TONNAGE | - | 1,309 | 150 |
| BOATS: | | | |
| MOTOR | 3 | - | - |
| OTHER | 2 | - | - |
| GEAR: | | | |
| NUMBER | 3 | 26 | 5 |
| LENGTH, YARDS | 300 | - | - |
| YARDS AT MOUTH | - | 579 | 89 |

| ITEM | POTS, CRAB | GILL NETS, SALMON | |
|------------------------------|---------------|-------------------------|---------------|
| | | ANCHOR, SET OR STAKE | DRIFT |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: | | | |
| ON VESSELS | 263 | - | - |
| ON BOATS AND SHORE | 82 | 44 | 70 |
| TOTAL | 345 | 44 | 70 |
| VESSELS, MOTOR | 115 | - | - |
| GROSS TONNAGE | 2,319 | - | - |
| BOATS: | | | |
| MOTOR | 60 | 40 | 66 |
| OTHER | - | 1 | - |
| GEAR: | | | |
| NUMBER | 26,000 | 118 | 66 |
| SQUARE YARDS | - | 47,200 | 132,000 |

| ITEM | LINES | | |
|------------------------------|---------------|---------------|----------------|
| | TROLL | | LONG OR SET |
| | SALMON | ALBACORE | |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: | | | |
| ON VESSELS | 562 | 315 | 25 |
| ON BOATS AND SHORE | 375 | 13 | - |
| TOTAL | 937 | 328 | 25 |
| VESSELS, MOTOR | 328 | 148 | 6 |
| GROSS TONNAGE | 4,969 | 3,933 | 151 |
| BOATS, MOTOR | 312 | 10 | - |
| GEAR: | | | |
| NUMBER | 3,068 | 1,410 | 140 |
| HOOKS | 13,160 | 1,410 | 11,548 |

| ITEM | DREDGES, OYSTER, COMMON | SHOVELS | BY HAND, OYSTER | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|------------------------------|-------------------------------|---------|-----------------------|--|
| | | | | <u>NUMBER</u> |
| FISHERMEN: | | | | |
| ON VESSELS | 5 | - | - | 929 |
| ON BOATS AND SHORE | 2 | 194 | 26 | 679 |
| TOTAL | 7 | 194 | 26 | 1,608 |
| VESSELS, MOTOR | 2 | - | - | 465 |
| GROSS TONNAGE | 26 | - | - | 9,625 |
| BOATS: | | | | |
| MOTOR | 1 | - | - | 415 |
| OTHER | - | - | - | 3 |
| GEAR: | | | | |
| NUMBER | 6 | 194 | 26 | - |
| YARDS AT MOUTH | 12 | - | - | - |

PACIFIC COAST FISHERIES

COASTAL DISTRICT OF OREGON - CATCH BY GEAR, 1961

| SPECIES | HAUL SEINES | | OTTER TRAWLS | |
|---------------------------------|-------------|-------|--------------|---------|
| | POUNDS | VALUE | POUNDS | VALUE |
| COD | - | - | 2,700 | \$108 |
| FLOUNDERS: | | | | |
| "SOLE" | - | - | 5,196,700 | 254,247 |
| OTHER | - | - | 121,700 | 4,870 |
| HAKE | - | - | 49,000 | 1,225 |
| HERRING, SEA | - | - | 18,300 | 4,500 |
| LINGCOD | - | - | 166,700 | 6,843 |
| OCEAN PERCH | - | - | 1,941,600 | 82,139 |
| PERCH | 3,600 | \$285 | - | - |
| ROCKFISHES | - | - | 3,270,100 | 116,555 |
| SABLEFISH | - | - | 144,200 | 10,100 |
| SKATES | - | - | 153,100 | 3,767 |
| SMELT, SURF OR SILVER | 2,200 | 219 | - | - |
| STURGEON | - | - | 1,500 | 119 |
| SHRIMP, OCEAN | - | - | 692,200 | 55,373 |
| OCTOPUS | - | - | 100 | 8 |
| TOTAL | 5,800 | 504 | 11,760,100 | 539,654 |

| SPECIES | POTS | | GILL NETS | |
|----------------------------|-----------|-------------|-----------|---------|
| | POUNDS | VALUE | POUNDS | VALUE |
| SALMON: | | | | |
| CHINOOK OR KING | - | - | 9,800 | \$3,435 |
| CHUM OR KETA | - | - | 16,900 | 2,371 |
| SILVER OR COHO | - | - | 11,900 | 2,978 |
| SHAD | - | - | 519,100 | 77,862 |
| STEELHEAD TROUT | - | - | 5,500 | 1,325 |
| STRIPED BASS | - | - | 32,900 | 3,619 |
| STURGEON | - | - | 100 | 12 |
| CRABS, DUNGENESS | 7,676,300 | \$1,260,212 | - | - |
| TOTAL | 7,676,300 | 1,260,212 | 596,200 | 91,602 |

| SPECIES | LINES | | | |
|-----------------------------|-----------|-----------|-------------|--------|
| | TROLL | | LONG OR SET | |
| | POUNDS | VALUE | POUNDS | VALUE |
| FLOUNDERS, "SOLE" | 400 | \$33 | 1,500 | \$142 |
| HALIBUT | 19,600 | 2,287 | 224,600 | 38,161 |
| LINGCOD | 74,800 | 3,102 | 8,500 | 432 |
| ROCKFISHES | 17,000 | 681 | 32,200 | 1,440 |
| SABLEFISH | - | - | 295,400 | 28,919 |
| SALMON: | | | | |
| CHINOOK OR KING | 1,299,200 | 654,774 | - | - |
| PINK | 100 | 21 | - | - |
| SILVER OR COHO | 1,880,600 | 554,788 | - | - |
| STEELHEAD TROUT | 2,300 | 606 | - | - |
| TUNA, ALBACORE | 1,780,600 | 311,602 | - | - |
| TOTAL | 5,074,600 | 1,527,694 | 562,200 | 69,094 |

| SPECIES | DREDGES AND BY HAND | | SHOVELS | |
|------------------------------------|---------------------|----------|---------|---------|
| | POUNDS | VALUE | POUNDS | VALUE |
| CLAMS: | | | | |
| RAZOR | - | - | 16,100 | \$7,700 |
| MIXED | - | - | 9,800 | 5,610 |
| OYSTERS, MARKET, PACIFIC | 326,500 | \$72,268 | - | - |
| TOTAL | 326,500 | 72,268 | 25,900 | 13,310 |

PACIFIC COAST FISHERIES

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CALIFORNIA

CATCH BY DISTRICTS, 1961

| SPECIES | NORTHERN | | SAN FRANCISCO | | MONTEREY | |
|----------------------|------------|-----------|---------------|-----------|------------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ANCHOVIES | - | - | 229,600 | \$3,743 | 3,787,500 | \$54,139 |
| CABEZONE | - | - | 200 | 8 | 3,800 | 215 |
| CARP | - | - | 338,600 | 15,300 | - | - |
| FLOUNDERS: | | | | | | |
| ARROWTOOTH HALIBUT | 50,200 | \$2,424 | 10,400 | 386 | 100 | 4 |
| CALIFORNIA HALIBUT | 200 | 43 | 50,100 | 10,000 | 10,000 | 2,451 |
| SAND DABS | 103,500 | 8,191 | 346,600 | 22,152 | 112,000 | 7,367 |
| "SOLE": | | | | | | |
| DOVER | 6,279,300 | 375,200 | 1,405,000 | 73,225 | 59,600 | 2,947 |
| ENGLISH | 1,498,600 | 110,988 | 1,304,000 | 94,715 | 206,700 | 15,154 |
| PETRALE | 1,606,400 | 183,331 | 816,200 | 96,867 | 111,400 | 13,309 |
| REX | 604,300 | 42,042 | 414,600 | 26,964 | 70,500 | 3,601 |
| SAND | 8,700 | 921 | 65,700 | 6,673 | 200 | 29 |
| UNCLASSIFIED | 400 | 22 | 3,000 | 184 | 11,000 | 1,035 |
| OTHER | 202,600 | 9,953 | 88,500 | 4,598 | 18,800 | 1,886 |
| HAKE | - | - | 3,200 | 52 | - | - |
| HALIBUT | 3,900 | 966 | - | - | - | - |
| HARDHEAD | - | - | 99,300 | 19,900 | - | - |
| HERRING, SEA | 100 | 7 | 1,039,900 | 8,639 | 352,800 | 22,089 |
| KING CROAKER | - | - | 4,100 | 219 | 236,100 | 12,310 |
| LINGCOD | 762,600 | 52,739 | 445,200 | 28,836 | 148,500 | 14,054 |
| MACKEREL: | | | | | | |
| JACK | - | - | 20,800 | 1,094 | 3,651,000 | 84,928 |
| PACIFIC | - | - | - | - | - | - |
| PERCH | 61,000 | 8,692 | 23,400 | 3,902 | 10,400 | 268 |
| POMPANO | - | - | - | - | 13,000 | 1,646 |
| ROCKFISHES | 2,117,400 | 90,296 | 2,221,800 | 106,965 | 3,228,000 | 167,696 |
| SABLEFISH | 579,900 | 45,569 | 672,600 | 20,634 | 350,400 | 18,504 |
| SALMON: | | | | | | |
| CHINOOK OR KING | 3,660,300 | 1,972,063 | 3,641,900 | 2,091,704 | 652,100 | 363,431 |
| SILVER OR COHO | 474,600 | 166,110 | 59,800 | 20,930 | 2,500 | 1,000 |
| TOTAL SALMON | 4,134,900 | 2,138,173 | 3,701,700 | 2,112,634 | 654,600 | 364,431 |
| SARDINE, PACIFIC | - | - | - | - | 1,109,600 | 33,816 |
| SEA BASS, WHITE | - | - | 30,900 | 9,147 | 13,400 | 3,688 |
| SHARKS, UNCLASSIFIED | 1,100 | 64 | 130,200 | 4,955 | 39,000 | 2,210 |
| SKATES | 200,100 | 1,013 | 130,200 | 1,527 | 64,900 | 908 |
| SMELT | 296,900 | 15,151 | 58,200 | 5,706 | 33,500 | 1,989 |
| SPLITTAIL | - | - | 700 | 258 | - | - |
| SWORDFISH | - | - | - | - | 500 | 180 |
| TUNA, ALBACORE | 1,440,200 | 234,386 | 3,432,300 | 615,608 | 1,871,800 | 302,569 |
| TURBOT | 7,600 | 753 | 60,900 | 3,515 | - | - |
| WHITEBAIT | 307,200 | 21,361 | 16,000 | 1,930 | 12,600 | 1,945 |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | - | - | 100 | 9 | 200 | 6 |
| BAIT AND ANIMAL FOOD | 2,760,900 | 55,218 | 187,200 | 3,233 | 9,700 | 154 |
| TOTAL FISH | 23,028,000 | 3,397,503 | 17,351,200 | 3,303,578 | 16,194,900 | 1,136,302 |
| SHELLFISH | | | | | | |
| CRABS: | | | | | | |
| DUNGENESS | 10,573,700 | 1,699,057 | 1,065,500 | 262,975 | 16,000 | 4,628 |
| ROCK | 100 | 5 | - | - | - | - |
| TOTAL CRABS | 10,573,800 | 1,699,062 | 1,065,500 | 262,975 | 16,000 | 4,628 |
| SHRIMP: | | | | | | |
| BAY | - | - | 2,100 | 267 | - | - |
| OCEAN | 2,002,700 | 190,113 | - | - | - | - |
| TOTAL SHRIMP | 2,002,700 | 190,113 | 2,100 | 267 | - | - |
| ABALONE 1/ | - | - | 4,800 | 4,390 | 100 | 128 |
| CLAMS, HARD 2/ | 500 | 280 | - | - | 100 | 22 |
| OCTOPUS | 400 | 8 | 2,400 | 93 | 100 | 8 |
| OYSTERS, MARKET: | | | | | | |
| EASTERN 3/ | - | - | 14,800 | 5,110 | - | - |
| PACIFIC 4/ | 1,008,800 | 210,166 | 63,800 | 58,150 | - | - |
| TOTAL OYSTERS | 1,008,800 | 210,166 | 78,600 | 63,260 | - | - |
| SQUID | - | - | - | - | 3,686,300 | 129,100 |
| TOTAL SHELLFISH | 13,586,200 | 2,099,629 | 1,153,400 | 330,985 | 3,702,600 | 133,886 |
| WHALE PRODUCTS: | | | | | | |
| MEAL | - | - | 3,282,000 | 201,380 | - | - |
| OIL | - | - | 4,943,800 | 396,631 | - | - |
| SPERM | - | - | 665,500 | 60,509 | - | - |
| WHALE | - | - | 2,765,400 | 178,694 | - | - |
| TOTAL WHALE PRODUCTS | - | - | 11,656,700 | 837,214 | - | - |
| GRAND TOTAL | 36,614,200 | 5,497,132 | 30,161,300 | 4,471,777 | 19,897,500 | 1,270,188 |

SEE FOOTNOTES AT END OF TABLE.

PACIFIC COAST FISHERIES

CALIFORNIA - CATCH BY DISTRICTS, 1961 - Continued

| SPECIES | SANTA BARBARA | | SAN PEDRO | | SAN DIEGO | |
|---------------------------------------|---------------|-----------|-------------|------------|------------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ANCHOVIES | 54,100 | \$1,944 | 3,640,400 | \$50,237 | - | - |
| BARRACUDA | 154,400 | 23,775 | 519,400 | 78,306 | 35,800 | \$4,663 |
| BONITO | 21,600 | 596 | 8,446,400 | 215,564 | 43,000 | 2,277 |
| CABEZONE | 1,000 | 62 | - | - | - | - |
| CABRILLA | - | - | 11,000 | 1,750 | - | - |
| FLOUNDERS: | | | | | | |
| CALIFORNIA HALIBUT | 191,700 | 42,978 | 127,800 | 33,116 | 274,800 | 62,118 |
| SAND DABS | 600 | 34 | 300 | 64 | - | - |
| "SOLE": | | | | | | |
| DOVER | 82,700 | 4,965 | - | - | - | - |
| ENGLISH | 636,600 | 39,818 | - | - | - | - |
| PETRALE | 856,700 | 95,578 | - | - | - | - |
| REX | 119,600 | 7,250 | - | - | - | - |
| SAND | 2,400 | 265 | - | - | - | - |
| UNCLASSIFIED | 7,900 | 481 | 1,700 | 135 | 10,400 | 2,487 |
| OTHER | 5,400 | 453 | - | - | - | - |
| FLYING FISH | - | - | 32,800 | 3,939 | - | - |
| GROUPERS | - | - | 100,000 | 41,056 | 12,300 | 1,883 |
| HALFMOON | - | - | 5,900 | 1,478 | - | - |
| HERRING, SEA | - | - | 8,500 | 425 | - | - |
| KING CROAKER | 1,000 | 78 | 643,500 | 25,709 | 2,500 | 248 |
| LINGCOD | 83,500 | 7,868 | 100 | 15 | 100 | 5 |
| MACKEREL: | | | | | | |
| JACK | 14,794,800 | 280,591 | 79,139,700 | 1,658,422 | - | - |
| PACIFIC | 2,477,700 | 49,843 | 41,544,600 | 902,973 | 77,500 | 2,903 |
| OPALEYE | - | - | 2,300 | 352 | - | - |
| PERCH | 17,200 | 3,841 | 3,700 | 729 | 100 | 10 |
| POMPANO | - | - | 10,200 | 2,166 | - | - |
| ROCK BASS | - | - | 1,400 | 260 | 1,200 | 252 |
| ROCKFISHES | 2,321,000 | 108,638 | 584,300 | 73,734 | 358,300 | 39,481 |
| SABLEFISH | 12,600 | 779 | 900 | 116 | 1,600 | 196 |
| SALMON: | | | | | | |
| CHINOOK OR KING | 133,400 | 76,201 | 13,200 | 6,568 | - | - |
| SILVER OR COHO | 100 | 50 | - | - | - | - |
| TOTAL SALMON | 133,500 | 76,251 | 13,200 | 6,568 | - | - |
| SARDINE, PACIFIC | 8,582,300 | 242,553 | 33,429,500 | 866,671 | 47,600 | 3,444 |
| SCULPIN | 100 | 29 | 7,800 | 2,659 | 18,700 | 4,765 |
| SEA BASS: | | | | | | |
| BLACK | 2,200 | 288 | 308,800 | 51,209 | 29,400 | 4,743 |
| WHITE | 101,500 | 31,204 | 347,200 | 115,574 | 201,200 | 56,977 |
| SHARKS, UNCLASSIFIED | 98,600 | 8,323 | 270,400 | 34,731 | 84,600 | 9,282 |
| SHEEPSHEAD | 1,100 | 54 | 3,900 | 268 | 7,700 | 611 |
| SIERRA | - | - | 600 | 19 | 100 | 17 |
| SKATES | 2,600 | 129 | 300 | 33 | - | - |
| SMELT | 1,000 | 83 | 101,700 | 2,583 | - | - |
| SWORDFISH | 63,400 | 26,702 | 259,300 | 115,671 | 45,700 | 19,670 |
| TUNA: | | | | | | |
| ALBACORE | 683,800 | 108,883 | 11,993,600 | 2,171,472 | 9,701,600 | 1,754,668 |
| BLUEFIN | - | - | 20,419,400 | 2,646,119 | 463,300 | 58,694 |
| SKIPJACK | - | - | 49,164,400 | 5,430,712 | 16,238,400 | 1,787,977 |
| YELLOWFIN | - | - | 164,034,500 | 20,823,905 | 27,819,500 | 3,614,862 |
| TOTAL TUNA | 683,800 | 108,883 | 245,611,900 | 31,072,208 | 54,222,800 | 7,216,201 |
| TURBOT | 2,900 | 147 | - | - | - | - |
| Wahoo | - | - | 9,300 | 3,249 | - | - |
| YELLOWTAIL | 7,800 | 547 | 300,700 | 21,166 | 72,300 | 6,006 |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | 1,100 | 74 | 18,300 | 1,184 | 8,000 | 616 |
| BAIT AND ANIMAL FOOD | 819,300 | 16,387 | - | - | - | - |
| TOTAL FISH | 32,343,700 | 1,181,491 | 415,599,600 | 35,384,359 | 55,555,700 | 7,438,855 |
| SHELLFISH | | | | | | |
| CRABS: | | | | | | |
| DUNGENESS | 56,000 | 14,131 | - | - | - | - |
| ROCK | 77,400 | 4,170 | 73,100 | 7,924 | 1,100 | 32 |
| TOTAL CRABS | 133,400 | 18,301 | 73,100 | 7,924 | 1,100 | 32 |
| LOBSTERS, SPINY | 78,600 | 51,316 | 203,500 | 142,930 | 136,600 | 89,472 |
| ABALONE 1/ | 629,100 | 462,321 | 200,500 | 104,068 | 76,200 | 35,992 |
| CLAMS, HARD 2/ | - | - | 100 | 32 | 1,400 | 2,480 |
| OCTOPUS | - | - | - | - | - | - |
| OYSTERS, MARKET, PACIFIC 4/ | 133,100 | 22,187 | - | - | - | - |
| SQUID | 2,571,100 | 34,197 | 4,026,600 | 67,858 | 1,900 | 74 |
| TOTAL SHELLFISH | 3,545,300 | 588,322 | 4,503,800 | 322,812 | 217,200 | 128,050 |
| GRAND TOTAL | 35,889,000 | 1,769,813 | 420,103,400 | 35,707,171 | 55,772,900 | 7,566,905 |

1/ BASED ON YIELDS OF 20 PERCENT MEATS. 2/ BASED ON YIELDS OF 24 PERCENT MEATS. 3/ BASED ON YIELDS OF 14 PERCENT MEATS. 4/ BASED ON YIELDS OF 12 PERCENT MEATS.

PACIFIC COAST FISHERIES

309

CALIFORNIA - CATCH BY WATERS, 1961

| SPECIES | OFF UNITED STATES | | OFF LATIN AMERICA | |
|----------------------|-------------------|------------|-------------------|------------|
| | POUNDS | VALUE | POUNDS | VALUE |
| ANCHOVIES | 7,711,600 | \$110,063 | - | - |
| BARRACUDA | 478,400 | 71,951 | 231,000 | \$34,793 |
| BONITO | 8,439,400 | 216,470 | 73,600 | 1,967 |
| CABEZONE | 5,000 | 285 | - | - |
| CABRILLA | - | - | 11,000 | 1,750 |
| CARP | 338,600 | 15,300 | - | - |
| FLOUNDERS: | | | | |
| ARROWTOOTH HALIBUT | 60,700 | 2,814 | - | - |
| CALIFORNIA HALIBUT | 545,500 | 125,574 | 109,100 | 25,132 |
| SAND DABS | 563,000 | 37,808 | - | - |
| "SOLE": | | | | |
| DOVER | 7,826,600 | 456,337 | - | - |
| ENGLISH | 3,645,900 | 260,675 | - | - |
| PETRALE | 3,390,700 | 389,085 | - | - |
| REX | 1,209,000 | 79,857 | - | - |
| SAND | 77,000 | 7,888 | - | - |
| UNCLASSIFIED | 34,400 | 4,344 | - | - |
| OTHER | 315,300 | 16,890 | - | - |
| FLYING FISH | 32,800 | 3,939 | - | - |
| GROUPERS | - | - | 202,300 | 42,939 |
| HAKE | 3,200 | 52 | - | - |
| HALFMOON | 5,900 | 1,478 | - | - |
| HALIBUT | 3,900 | 966 | - | - |
| HARDHEAD | 99,300 | 19,900 | - | - |
| HERRING, SEA | 1,401,300 | 31,160 | - | - |
| KING CROAKER | 889,200 | 38,564 | - | - |
| LINGCOD | 1,440,000 | 103,517 | - | - |
| MACKEREL: | | | | |
| JACK | 97,606,300 | 2,025,035 | - | - |
| PACIFIC | 44,110,200 | 955,987 | - | - |
| OPALEYE | 2,300 | 352 | - | - |
| PERCH | 118,400 | 18,820 | - | - |
| POMPANO | 11,300 | 2,888 | 200 | 52 |
| ROCK BASS | - | - | 2,600 | 512 |
| ROCKFISHES | 10,491,100 | 568,300 | 339,700 | 18,510 |
| SABLEFISH | 1,617,900 | 85,748 | 100 | 50 |
| SALMON: | | | | |
| CHINOOK OR KING | 8,100,900 | 4,509,967 | - | - |
| SILVER OR COHO | 537,000 | 188,090 | - | - |
| SARDINE, PACIFIC | 43,169,000 | 1,146,484 | - | - |
| SCULPIN | 26,600 | 7,453 | - | - |
| SEA BASS: | | | | |
| BLACK | 12,500 | 2,071 | 327,900 | 54,169 |
| WHITE | 458,500 | 143,006 | 235,700 | 73,584 |
| SHARKS, UNCLASSIFIED | 610,100 | 58,246 | 13,800 | 1,319 |
| SHEEPSHEAD | 9,700 | 713 | 3,000 | 220 |
| SIERRA | - | - | 700 | 36 |
| SKATES | 398,100 | 3,610 | - | - |
| SMELT | 491,300 | 25,512 | - | - |
| SPLITTAIL | 700 | 258 | - | - |
| SWORDFISH | 360,600 | 158,555 | 8,300 | 3,668 |
| TUNA: | | | | |
| ALBACORE | 20,738,100 | 3,693,455 | 8,385,200 | 1,494,131 |
| BLUEFIN | 13,762,500 | 1,782,244 | 7,120,200 | 922,569 |
| SKIPJACK | 600 | 249 | 65,402,200 | 7,218,440 |
| YELLOWFIN | - | - | 191,654,000 | 24,438,767 |
| TURBOT | 71,400 | 4,415 | - | - |
| WAHOO | - | - | 9,300 | 3,249 |
| WHITESAIT | 335,800 | 25,236 | - | - |
| YELLOWTAIL | 80,700 | 5,880 | 300,100 | 21,859 |
| UNCLASSIFIED: | | | | |
| FOR FOOD | 10,500 | 716 | 17,200 | 1,173 |
| BAIT AND ANIMAL FOOD | 3,777,100 | 74,992 | - | - |
| CRABS: | | | | |
| DUNGENESS | 11,711,200 | 1,980,791 | - | - |
| ROCK | 151,700 | 12,131 | - | - |
| LOBSTERS, SPINY | 412,400 | 279,442 | 6,300 | 4,276 |
| SHRIMP: | | | | |
| BAY | 2,100 | 267 | - | - |
| OCEAN | 2,002,700 | 190,113 | - | - |
| ABALONE | 910,700 | 606,899 | - | - |
| CLAMS, HARD | 2,000 | 2,782 | - | - |
| OCTOPUS | 3,000 | 141 | - | - |
| OYSTER, MARKET: | | | | |
| EASTERN | 14,800 | 5,110 | - | - |
| PACIFIC | 1,205,700 | 290,503 | - | - |
| SQUID | 10,285,900 | 231,229 | - | - |
| WHALE PRODUCTS: | | | | |
| MEAL | 3,282,000 | 201,380 | - | - |
| MEAT | 4,943,800 | 396,631 | - | - |
| OIL: | | | | |
| SPERM | 665,500 | 60,509 | - | - |
| WHALE | 2,765,400 | 178,694 | - | - |
| TOTAL | 323,784,800 | 21,919,821 | 274,653,500 | 34,363,165 |

PACIFIC COAST FISHERIES

NORTHERN DISTRICT OF CALIFORNIA - OPERATING UNITS, 1961

| ITEM | HAUL SEINES, COMMON | BEAM TRAWLS, SHRIMP | OTTER TRAWLS, FISH | POTS, CRAB |
|-----------------------------------|---------------------------|---------------------------|--------------------------|---------------|
| | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: ON VESSELS. | - | 40 | 134 | 360 |
| ON BOATS AND SHORE. | 10 | - | - | 62 |
| TOTAL | 10 | 40 | 134 | 462 |
| VESSELS, MOTOR. | - | 11 | 31 | 163 |
| GROSS TONNAGE | - | 274 | 1,793 | 2,743 |
| BOATS, MOTOR. | 5 | - | - | 55 |
| GEAR: NUMBER. | 5 | 11 | 31 | 18,110 |
| LENGTH, YARDS | 250 | - | - | - |
| YARDS AT MOUTH. | - | 77 | 637 | - |

| ITEM | LINES | | | | |
|-----------------------------------|-------------------|--------|----------|--------|----------------|
| | HAND, ROCKFISH | TROLL | | | LONG OR SET |
| | | SALMON | ALBACORE | OTHER | |
| NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| FISHERMEN: ON VESSELS. | - | 1,096 | 432 | - | - |
| ON BOATS AND SHORE. | 4 | 679 | 27 | 6 | 10 |
| TOTAL | 4 | 1,775 | 459 | 6 | 10 |
| VESSELS, MOTOR. | - | 484 | 181 | - | - |
| GROSS TONNAGE | - | 8,238 | 4,036 | - | - |
| BOATS, MOTOR. | 2 | 368 | 16 | 3 | 5 |
| GEAR: NUMBER. | 4 | 5,232 | 1,791 | 24 | 40 |
| HOOKS | 8 | 20,926 | 1,791 | 24 | 4,000 |

| ITEM | DREDGES, OYSTER | | TONGS, OYSTER | SHOVELS, CLAM | BY HAND, OYSTER | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|-----------------------------------|-----------------|---------|------------------|------------------|--------------------|--|
| | COMMON | SUCTION | | | | |
| NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| FISHERMEN: ON VESSELS. | - | - | 8 | 4 | 8 | 1,393 |
| ON BOATS AND SHORE. | 4 | 3 | 8 | 4 | 8 | 686 |
| TOTAL | 4 | 3 | 8 | 4 | 8 | 2,079 |
| VESSELS, MOTOR. | - | - | - | - | - | 560 |
| GROSS TONNAGE | - | - | - | - | - | 11,911 |
| BOATS, MOTOR. | 2 | 1 | 8 | 2 | 8 | 392 |
| GEAR: NUMBER. | 2 | 1 | 8 | 4 | - | - |
| YARDS AT MOUTH. | 2 | - | - | - | - | - |

PACIFIC COAST FISHERIES

311

NORTHERN DISTRICT OF CALIFORNIA - CATCH BY GEAR, 1961

| SPECIES | HAUL SEINES | | BEAM TRAWLS | | OTTER TRAWLS | |
|--|-------------|--------|-------------|-----------|--------------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| FLOUNDERS: | | | | | | |
| ARROWTOOTH HALIBUT. | - | - | - | - | 50,200 | \$2,424 |
| CALIFORNIA HALIBUT. | - | - | - | - | 200 | 43 |
| SAND DABS | - | - | - | - | 103,500 | 8,191 |
| "SOLE": | | | | | | |
| DOVER | - | - | - | - | 6,279,300 | 375,200 |
| ENGLISH | - | - | - | - | 1,498,600 | 110,988 |
| PETRALE | - | - | - | - | 1,606,400 | 163,331 |
| REX | - | - | - | - | 604,300 | 42,042 |
| SAND | - | - | - | - | 8,700 | 921 |
| UNCLASSIFIED. | - | - | - | - | 400 | 22 |
| OTHER | - | - | - | - | 202,600 | 9,953 |
| HERRING, SEA. | 100 | \$7 | - | - | - | - |
| LINGCOD | - | - | - | - | 654,800 | 45,300 |
| PERCH | 61,000 | 8,692 | - | - | - | - |
| ROCKFISHES: | | | | | | |
| SABLEFISH | - | - | - | - | 2,091,700 | 89,190 |
| SHARKS, UNCLASSIFIED. | - | - | - | - | 529,300 | 41,600 |
| SKATES. | - | - | - | - | 1,100 | 64 |
| SMELT | 296,900 | 15,151 | - | - | 200,100 | 1,013 |
| TURBOT. | - | - | - | - | - | - |
| WHITEBAIT | 307,200 | 21,361 | - | - | 7,600 | 753 |
| UNCLASSIFIED, FOR BAIT AND ANIMAL FOOD. | - | - | - | - | 2,760,900 | 55,218 |
| CRABS: | | | | | | |
| DUNGENESS | - | - | - | - | 3,700 | 595 |
| ROCK | - | - | - | - | 100 | 5 |
| SHRIMP, OCEAN | - | - | 2,002,700 | \$190,113 | - | - |
| OCTOPUS | - | - | - | - | 400 | 8 |
| TOTAL | 665,200 | 45,211 | 2,002,700 | 190,113 | 16,603,900 | 966,861 |

| SPECIES | POTS | | LINES | | DREDGES | |
|---------------------------|------------|-------------|-----------|-----------|---------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| HALIBUT | - | - | 3,900 | \$966 | - | - |
| LINGCOD | - | - | 107,800 | 7,439 | - | - |
| ROCKFISHES. | - | - | 25,700 | 1,106 | - | - |
| SABLEFISH | - | - | 50,600 | 3,969 | - | - |
| SALMON: | | | | | | |
| CHINOOK OR KING | - | - | 3,660,300 | 1,972,063 | - | - |
| SILVER OR COHO. | - | - | 474,600 | 165,110 | - | - |
| TUNA, ALBACORE. | - | - | 1,440,200 | 234,386 | - | - |
| CRABS, DUNGENESS. | 10,570,000 | \$1,698,462 | - | - | - | - |
| OYSTERS, PACIFIC. | - | - | - | - | 978,500 | \$203,800 |
| TOTAL | 10,570,000 | 1,698,462 | 5,763,100 | 2,386,039 | 978,500 | 203,800 |

| SPECIES | TONGS AND BY HAND | | SHOVELS | |
|---------------------------|-------------------|---------|---------|-------|
| | POUNDS | VALUE | POUNDS | VALUE |
| CLAMS, HARD | - | - | 500 | \$280 |
| OYSTERS, PACIFIC. | 30,300 | \$6,366 | - | - |
| TOTAL | 30,300 | 6,366 | 500 | 280 |

PACIFIC COAST FISHERIES

SAN FRANCISCO DISTRICT OF CALIFORNIA - OPERATING UNITS, 1961

| ITEM | HAUL SEINES, COMMON | PURSE SEINES AND LAMPARA NETS | BEAM TRAWLS, SHRIMP | OTTER TRAWLS, FISH |
|------------------------------|------------------------|-------------------------------------|---------------------------|--------------------------|
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: | | | | |
| ON VESSELS | - | 18 | 4 | 105 |
| ON BOATS AND SHORE | 18 | 5 | 3 | - |
| TOTAL | 18 | 23 | 7 | 105 |
| VESSELS, MOTOR | - | 5 | 1 | 25 |
| GROSS TONNAGE | - | 60 | 25 | 1,377 |
| BOATS, MOTOR | 8 | 1 | 1 | - |
| GEAR: | | | | |
| NUMBER | 8 | 6 | 2 | 25 |
| LENGTH, YARDS | 1,200 | 1,400 | - | - |
| YARDS AT MOUTH | - | - | 14 | 675 |

| ITEM | POTS AND TRAPS | | GILL NETS, DRIFT | LINES | |
|------------------------------|----------------|---------------|------------------------|---------------|---------------|
| | CRAB | FISH | | HAND | |
| | | | | ROCKFISH | ALBACORE |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: | | | | | |
| ON VESSELS | 254 | - | 4 | - | 15 |
| ON BOATS AND SHORE | 120 | 6 | - | 16 | - |
| TOTAL | 374 | 6 | 4 | 16 | 15 |
| VESSELS, MOTOR | 113 | - | 2 | - | 7 |
| GROSS TONNAGE | 1,684 | - | 28 | - | 186 |
| BOATS, MOTOR | 72 | 3 | - | 8 | - |
| GEAR: | | | | | |
| NUMBER | 14,555 | 150 | 2 | 16 | 15 |
| SQUARE YARDS | - | - | 7,100 | - | - |
| HOOKS | - | - | - | 32 | 15 |

| ITEM | LINES - CONTINUED | | | HARPOONS, WHALE |
|------------------------------|-------------------|---------------|----------------|--------------------|
| | TROLL | | LONG OR SET | |
| | SALMON | ALBACORE | | |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: | | | | |
| ON VESSELS | 1,103 | 554 | 6 | 26 |
| ON BOATS AND SHORE | 591 | 10 | 12 | - |
| TOTAL | 1,694 | 564 | 18 | 26 |
| VESSELS, MOTOR | 476 | 213 | 3 | 5 |
| GROSS TONNAGE | 8,376 | 5,312 | 34 | 972 |
| BOATS, MOTOR | 338 | 5 | 6 | - |
| GEAR: | | | | |
| NUMBER | 4,684 | 1,962 | 80 | 5 |
| HOOKS | 19,536 | 1,962 | 8,000 | - |

| ITEM | DREDGES, OYSTER | TONGS, OYSTER | DIVING OUTFITS, ABALONE | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|------------------------------|--------------------|------------------|-------------------------------|--|
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: | | | | |
| ON VESSELS | - | - | - | 1,513 |
| ON BOATS AND SHORE | 2 | 6 | 2 | 618 |
| TOTAL | 2 | 6 | 2 | 2,131 |
| VESSELS, MOTOR | - | - | - | 614 |
| GROSS TONNAGE | - | - | - | 13,346 |
| BOATS, MOTOR | 1 | 6 | 1 | 353 |
| GEAR: | | | | |
| NUMBER | 1 | 6 | 1 | - |
| YARDS AT MOUTH | 1 | - | - | - |

NOTE:--INCLUDES OPERATING UNITS IN THE SACRAMENTO AREA CONSISTING OF FISH TRAPS AND HAUL SEINES.

PACIFIC COAST FISHERIES

313

SAN FRANCISCO DISTRICT OF CALIFORNIA - CATCH BY GEAR, 1961

| SPECIES | HAUL SEINES | | PURSE SEINES AND LAMPARA NETS | | BEAM TRAWLS | |
|--------------------------|-------------|----------|-------------------------------|---------|-------------|-------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ANCHOVIES | - | - | 229,600 | \$3,743 | - | - |
| CARP | 295,800 | \$13,364 | - | - | - | - |
| HARDHEAD | 99,300 | 19,900 | - | - | - | - |
| HERRING, SEA | 1,039,900 | 8,639 | - | - | - | - |
| MACKEREL, JACK | - | - | 19,900 | 1,046 | - | - |
| PERCH | 22,600 | 3,767 | - | - | - | - |
| SMELT | 19,500 | 1,912 | 36,700 | 3,794 | - | - |
| WHITEBAIT | - | - | 16,000 | 1,930 | - | - |
| SHRIMP, BAY | - | - | - | - | 2,100 | \$267 |
| TOTAL | 1,477,100 | 47,582 | 304,200 | 10,513 | 2,100 | 267 |

| SPECIES | OTTER TRAWLS | | POTS AND TRAPS | | GILL NETS | | LINES | |
|--------------------------------|--------------|---------|----------------|---------|-----------|--------|-----------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| CABEZONE | - | - | - | - | - | - | 200 | \$8 |
| CARP | - | - | 42,800 | \$1,936 | - | - | - | - |
| FLOUNDERS: | | | | | | | | |
| ARROWTOOTH HALIBUT | 10,400 | \$386 | - | - | - | - | - | - |
| CALIFORNIA HALIBUT | 44,800 | 8,942 | - | - | - | - | 5,300 | 1,058 |
| SAND DABS | 346,600 | 22,152 | - | - | - | - | - | - |
| "SOLE": | | | | | | | | |
| DOVER | 1,405,000 | 73,225 | - | - | - | - | - | - |
| ENGLISH | 1,304,000 | 94,715 | - | - | - | - | - | - |
| PETRALE | 816,200 | 96,867 | - | - | - | - | - | - |
| REX | 414,600 | 26,964 | - | - | - | - | - | - |
| SAND | 65,700 | 6,673 | - | - | - | - | - | - |
| UNCLASSIFIED | 1,500 | 92 | - | - | - | - | 1,500 | 92 |
| OTHER | 88,400 | 4,590 | - | - | - | - | 100 | 8 |
| HAKE | 3,200 | 52 | - | - | - | - | - | - |
| KING CROAKER | 3,900 | 208 | - | - | 200 | \$11 | - | - |
| LINGCOD | 403,700 | 26,147 | - | - | - | - | 41,500 | 2,689 |
| MACKEREL, JACK | 900 | 48 | - | - | - | - | - | - |
| PERCH | 800 | 135 | - | - | - | - | - | - |
| ROCKFISHES | 2,148,300 | 103,419 | - | - | - | - | 73,500 | 3,546 |
| SABLEFISH | 670,900 | 20,576 | - | - | - | - | 1,700 | 58 |
| SALMON: | | | | | | | | |
| CHINOOK OR KING | - | - | - | - | - | - | 3,641,900 | 2,091,704 |
| SILVER OR COHO | - | - | - | - | - | - | 59,800 | 29,930 |
| SEA BASS, WHITE | 200 | 60 | - | - | 30,700 | 9,087 | - | - |
| SHARKS, UNCLASSIFIED | 57,000 | 2,170 | - | - | 73,200 | 2,785 | - | - |
| SKATES | 130,200 | 1,527 | - | - | - | - | - | - |
| SPLITTAIL | - | - | - | - | - | - | 700 | 258 |
| TUNA, ALBACORE | - | - | - | - | - | - | 3,432,300 | 615,608 |
| TURBOT | 60,900 | 3,515 | - | - | - | - | - | - |
| UNCLASSIFIED: | | | | | | | | |
| FOR FOOD | 100 | 9 | - | - | - | - | - | - |
| BAIT AND ANIMAL FOOD | 187,200 | 3,233 | - | - | - | - | - | - |
| CRABS, DUNGENESS | 30,700 | 7,587 | 1,034,800 | 255,388 | - | - | - | - |
| OCTOPUS | 2,400 | 93 | - | - | - | - | - | - |
| TOTAL | 8,197,600 | 503,385 | 1,077,600 | 257,324 | 104,100 | 11,883 | 7,258,500 | 2,735,959 |

| SPECIES | HARPOONS | | DREDGES | | TONGS | | DIVING OUTFITS | |
|-------------------|------------|-----------|---------|---------|--------|---------|----------------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ABALONE | - | - | - | - | - | - | 4,800 | \$4,390 |
| OYSTERS: | | | | | | | | |
| EASTERN | - | - | - | - | 14,800 | \$5,110 | - | - |
| PACIFIC | - | - | 6,400 | \$5,836 | 57,400 | 52,314 | - | - |
| WHALE PRODUCTS: | | | | | | | | |
| MEAL | 3,282,000 | \$201,380 | - | - | - | - | - | - |
| MEAT | 4,943,800 | 396,631 | - | - | - | - | - | - |
| OIL: | | | | | | | | |
| SPERM | 665,500 | 60,509 | - | - | - | - | - | - |
| WHALE | 2,765,400 | 178,694 | - | - | - | - | - | - |
| TOTAL | 11,656,700 | 837,214 | 6,400 | 5,836 | 72,200 | 57,424 | 4,800 | 4,390 |

PACIFIC COAST FISHERIES

MONTEREY DISTRICT OF CALIFORNIA, OPERATING UNITS, 1961

| ITEM | PURSE SEINES AND LAMPARA NETS | | | |
|------------------------------|-------------------------------|---------------|---------------|---------------|
| | MACKEREL | SARDINE | SQUID | OTHER |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: | | | | |
| ON VESSELS | 129 | 103 | 45 | 35 |
| ON BOATS AND SHORE | - | - | - | 18 |
| TOTAL | 129 | 103 | 45 | 53 |
| VESSELS, MOTOR | 20 | 15 | 10 | 8 |
| GROSS TONNAGE | 993 | 820 | 174 | 206 |
| BOATS, MOTOR | 9 | 8 | 1 | 6 |
| GEAR: | | | | |
| NUMBER | 20 | 15 | 10 | 14 |
| LENGTH, YARDS | 8,400 | 6,550 | 3,400 | 3,700 |

| ITEM | OTTER TRAWLS, FISH | POTS, CRAB | GILL NETS, DRIFT | LINES |
|------------------------------|-----------------------|---------------|---------------------|---------------|
| | | | | HAND |
| | ROCKFISH | | | |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: | | | | |
| ON VESSELS | 32 | 11 | 13 | - |
| ON BOATS AND SHORE | 3 | 10 | 10 | 60 |
| TOTAL | 35 | 21 | 23 | 60 |
| VESSELS, MOTOR | 7 | 4 | 4 | - |
| GROSS TONNAGE | 516 | 65 | 73 | - |
| BOATS, MOTOR | 1 | 5 | 5 | 41 |
| GEAR: | | | | |
| NUMBER | 8 | 735 | 9 | 60 |
| SQUARE YARDS | - | - | 26,500 | - |
| YARDS AT MOUTH | 209 | - | - | - |
| HOOKS | - | - | - | 120 |

| ITEM | LINES - CONTINUED | | | |
|------------------------------|-------------------|---------------|---------------|---------------|
| | HAND - CONTINUED | TROLL | | |
| | ALBACORE | SALMON | ALBACORE | OTHER |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: | | | | |
| ON VESSELS | 15 | 387 | 409 | - |
| ON BOATS AND SHORE | - | 329 | 44 | 16 |
| TOTAL | 15 | 716 | 453 | 16 |
| VESSELS, MOTOR | 6 | 159 | 156 | - |
| GROSS TONNAGE | 132 | 2,794 | 3,517 | - |
| BOATS, MOTOR | - | 188 | 29 | 10 |
| GEAR: | | | | |
| NUMBER | 15 | 2,082 | 1,665 | 60 |
| HOOKS | 15 | 8,328 | 1,665 | 60 |

| ITEM | LINES - CONTINUED | | | |
|------------------------------|-------------------|------------------|-------------------------------|--|
| | LONG OR SET | SHOVELS, CLAM | DIVING OUTFITS, ABALONE | TOTAL, EXCLUSIVE OF DUPLI- CATION |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: | | | | |
| ON VESSELS | 12 | - | - | 804 |
| ON BOATS AND SHORE | 25 | 2 | 4 | 380 |
| TOTAL | 37 | 2 | 4 | 1,184 |
| VESSELS, MOTOR | 6 | - | - | 281 |
| GROSS TONNAGE | 68 | - | - | 6,727 |
| BOATS, MOTOR | 17 | 2 | 2 | 226 |
| GEAR: | | | | |
| NUMBER | 196 | 2 | 2 | - |
| HOOKS | 16,880 | - | - | - |

PACIFIC COAST FISHERIES

315

MONTEREY DISTRICT OF CALIFORNIA - CATCH BY GEAR, 1961

| SPECIES | PURSE SEINES AND LAMPARA NETS | | OTTER TRAWLS | | POTS | |
|--------------------------------|-------------------------------------|----------------|------------------|----------------|---------------|--------------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ANCHOVIES | 3,787,500 | \$54,139 | - | - | - | - |
| CABEZONE | - | - | 200 | \$12 | - | - |
| FLOUNDERS: | | | | | | |
| ARROWTOOTH HALIBUT | - | - | 100 | 4 | - | - |
| CALIFORNIA HALIBUT | - | - | 200 | 50 | - | - |
| SAND DABS | - | - | 77,300 | 5,084 | - | - |
| "SOLE" | - | - | - | - | - | - |
| DOVER | - | - | 59,600 | 2,947 | - | - |
| ENGLISH | - | - | 205,700 | 15,154 | - | - |
| PETRALE | - | - | 111,400 | 13,309 | - | - |
| REX | - | - | 70,500 | 3,601 | - | - |
| SAND | - | - | 200 | 29 | - | - |
| UNCLASSIFIED | - | - | 1,900 | 179 | - | - |
| OTHER | - | - | 2,400 | 242 | - | - |
| HERRING, SEA | 352,800 | 22,089 | - | - | - | - |
| KING CROAKER | 128,600 | 6,648 | 3,200 | 167 | - | - |
| LINGCOD | - | - | 52,400 | 4,961 | - | - |
| MACKEREL: | | | | | | |
| JACK | 3,635,500 | 84,561 | 15,500 | 367 | - | - |
| PACIFIC | 10,300 | 265 | 100 | 3 | - | - |
| PERCH | 11,700 | 1,481 | 1,300 | 165 | - | - |
| POMPANO | 1,300 | 774 | - | - | - | - |
| ROCKFISHES | - | - | 2,504,400 | 130,103 | - | - |
| SABLEFISH | - | - | 127,600 | 6,741 | - | - |
| SARDINE, PACIFIC | 1,109,600 | 33,816 | - | - | - | - |
| SHARKS, UNCLASSIFIED | - | - | 20,400 | 1,154 | - | - |
| SKATES | - | - | 64,900 | 908 | - | - |
| SMELT | 33,500 | 1,989 | - | - | - | - |
| WHITBAIT | 12,600 | 1,945 | - | - | - | - |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | - | - | 200 | 6 | - | - |
| BAIT AND ANIMAL FOOD | - | - | 9,700 | 154 | - | - |
| CRABS, DUNGENESS | - | - | - | - | 16,000 | \$4,628 |
| OCTOPUS | - | - | 100 | 8 | - | - |
| SQUID | 3,686,300 | 129,100 | - | - | - | - |
| TOTAL | 12,769,700 | 336,807 | 3,330,300 | 185,348 | 16,000 | 4,628 |

| SPECIES | GILL NETS | | LINES | |
|--------------------------------|----------------|--------------|------------------|----------------|
| | POUNDS | VALUE | POUNDS | VALUE |
| CABEZONE | - | - | 3,600 | \$203 |
| FLOUNDERS: | | | | |
| CALIFORNIA HALIBUT | - | - | 9,800 | 2,401 |
| SAND DABS | - | - | 34,700 | 2,283 |
| "SOLE", UNCLASSIFIED | - | - | 9,100 | 856 |
| OTHER | - | - | 16,400 | 1,644 |
| KING CROAKER | 106,300 | \$5,495 | - | - |
| LINGCOD | - | - | 96,100 | 9,093 |
| ROCKFISHES | - | - | 723,600 | 37,593 |
| SABLEFISH | - | - | 222,800 | 11,763 |
| SALMON: | | | | |
| CHINOOK OR KING | - | - | 652,100 | 363,431 |
| SILVER OR COHO | - | - | 2,500 | 1,000 |
| SEA BASS, WHITE | 12,000 | 3,300 | 1,400 | 388 |
| SHARKS, UNCLASSIFIED | 18,600 | 1,056 | - | - |
| SWORDFISH | - | - | 500 | 180 |
| TUNA, ALBACORE | - | - | 1,671,800 | 302,569 |
| TOTAL | 136,900 | 9,851 | 3,644,400 | 733,404 |

| SPECIES | SHOVELS | | DIVING OUTFITS | |
|------------------------|------------|-----------|----------------|------------|
| | POUNDS | VALUE | POUNDS | VALUE |
| ABALONE | - | - | 100 | \$128 |
| CLAMS, HARD | 100 | \$22 | - | - |
| TOTAL | 100 | 22 | 100 | 128 |

PACIFIC COAST FISHERIES

SANTA BARBARA DISTRICT OF CALIFORNIA - OPERATING UNITS, 1961

| ITEM | PURSE SEINES AND LAMPARA NETS | | | | •OTTER TRAWLS, FISH |
|------------------------------|-------------------------------|---------------|---------------|---------------|---------------------------|
| | MACKEREL | SARDINE | SQUID | OTHER | |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: | | | | | |
| ON VESSELS | 190 | 172 | 31 | 16 | 72 |
| ON BOATS AND SHORE | - | - | - | - | 6 |
| TOTAL | 190 | 172 | 31 | 16 | 78 |
| VESSELS, MOTOR | 25 | 21 | 6 | 3 | 17 |
| GROSS TONNAGE | 1,900 | 1,574 | 130 | 152 | 708 |
| BOATS, MOTOR | 17 | 16 | 2 | - | 2 |
| GEAR: | | | | | |
| NUMBER | 25 | 21 | 7 | 3 | 19 |
| LENGTH, YARDS | 11,430 | 10,300 | 2,030 | 1,300 | - |
| YARDS AT MOUTH | - | - | - | - | 449 |

| ITEM | POTS AND TRAPS | | GILL NETS, DRIFT | | TRAMMEL NETS |
|------------------------------|----------------|---------------|------------------|---------------|-----------------|
| | CRAB | LOBSTER | BARRACUDA | SEA BASS | |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: | | | | | |
| ON VESSELS | 11 | 14 | - | 17 | - |
| ON BOATS AND SHORE | 16 | 25 | 26 | 12 | 4 |
| TOTAL | 29 | 39 | 26 | 29 | 4 |
| VESSELS, MOTOR | 5 | 6 | - | 7 | - |
| GROSS TONNAGE | 74 | 95 | - | 127 | - |
| BOATS, MOTOR | 9 | 17 | 14 | 6 | 2 |
| GEAR: | | | | | |
| NUMBER | 990 | 1,405 | 14 | 13 | 2 |
| SQUARE YARDS | - | - | 35,000 | 36,900 | 11,000 |

| ITEM | LINES | | | | LONG OR SET |
|------------------------------|---------------|---------------|---------------|---------------|----------------|
| | HAND | | TROLL | | |
| | ROCKFISH | ALBACORE | SALMON | ALBACORE | |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: | | | | | |
| ON VESSELS | - | 26 | 105 | 236 | 6 |
| ON BOATS AND SHORE | 25 | 6 | 66 | 14 | 10 |
| TOTAL | 25 | 32 | 172 | 250 | 16 |
| VESSELS, MOTOR | - | 11 | 42 | 91 | 3 |
| GROSS TONNAGE | - | 293 | 675 | 2,144 | 46 |
| BOATS, MOTOR | 17 | 3 | 36 | 8 | 5 |
| GEAR: | | | | | |
| NUMBER | 25 | 32 | 460 | 691 | 70 |
| HOOKS | 50 | 32 | 1,920 | 691 | 6,200 |

| ITEM | DIP BRAIL, OR SCOOP NETS | HARPOONS, SWORDFISH | TONGS, OYSTER | DIVING OUTFITS, ABALONE | BY HAND, OYSTER | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|------------------------------|--------------------------------|------------------------|------------------|-------------------------------|--------------------|--|
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FISHERMEN: | | | | | | |
| ON VESSELS | 31 | 7 | - | 6 | - | 655 |
| ON BOATS AND SHORE | 2 | 16 | 11 | 136 | 11 | 260 |
| TOTAL | 33 | 25 | 11 | 144 | 11 | 935 |
| VESSELS, MOTOR | 13 | 3 | - | 3 | - | 199 |
| GROSS TONNAGE | 264 | 36 | - | 31 | - | 5,765 |
| BOATS, MOTOR | 1 | 9 | 11 | 69 | - | 177 |
| GEAR, NUMBER | 32 | 12 | 11 | 72 | - | - |

PACIFIC COAST FISHERIES

317

SANTA BARBARA DISTRICT OF CALIFORNIA - CATCH BY GEAR, 1961

| SPECIES | PURSE SEINES AND LAMPARA NETS | | OTTER TRAWLS | | POTS AND TRAPS | |
|--------------------------------|-------------------------------|---------|--------------|---------|----------------|----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ANCHOVIES | 54,100 | \$1,944 | - | - | - | - |
| BONITO | 21,400 | 590 | 200 | \$6 | - | - |
| FLOUNDERS: | | | | | | |
| CALIFORNIA HALIBUT | - | - | 141,800 | 31,777 | - | - |
| SAND DABS | - | - | 600 | 34 | - | - |
| "SOLE": | | | | | | |
| DOVER | - | - | 82,700 | 4,965 | - | - |
| ENGLISH | - | - | 636,600 | 39,618 | - | - |
| PETRALE | - | - | 856,700 | 95,578 | - | - |
| REX | - | - | 119,600 | 7,250 | - | - |
| SAND | - | - | 2,400 | 265 | - | - |
| UNCLASSIFIED | - | - | 7,600 | 462 | - | - |
| OTHER | - | - | 1,600 | 135 | - | - |
| LINGCOD | - | - | 52,200 | 4,918 | - | - |
| MACKEREL: | | | | | | |
| JACK | 14,792,000 | 280,450 | - | - | - | - |
| PACIFIC | 2,353,800 | 47,300 | - | - | - | - |
| PERCH | - | - | 200 | 46 | - | - |
| ROCKFISHES | - | - | 2,169,000 | 101,509 | - | - |
| SABLEFISH | - | - | 12,600 | 779 | - | - |
| SARDINE, PACIFIC | 8,582,300 | 242,553 | - | - | - | - |
| SEA BASS, WHITE | - | - | 200 | 65 | - | - |
| SHARKS, UNCLASSIFIED | - | - | 1,500 | 128 | - | - |
| SKATES | - | - | 2,600 | 129 | - | - |
| SMELT | 1,000 | 83 | - | - | - | - |
| TURBOT | - | - | 2,900 | 147 | - | - |
| UNCLASSIFIED: | | | | | | |
| FOR FOOD | - | - | 1,100 | 74 | - | - |
| BAIT AND ANIMAL FOOD | - | - | 819,300 | 16,387 | - | - |
| CRABS: | | | | | | |
| DUNGENESS | - | - | 600 | 154 | 55,400 | \$13,977 |
| ROCK | - | - | 300 | 17 | 77,100 | 4,153 |
| LOBSTERS, SPINY | - | - | - | - | 78,600 | 51,316 |
| SQUID | 2,571,100 | 34,197 | - | - | - | - |
| TOTAL | 28,375,700 | 607,117 | 4,912,300 | 304,643 | 211,100 | 69,446 |

| SPECIES | GILL AND TRAMMEL NETS | | LINES | | DIP, BRAIL, OR SCOOP NETS | |
|--------------------------------|-----------------------|----------|-----------|---------|---------------------------|-------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BARRACUDA | 150,000 | \$23,065 | 4,400 | \$690 | - | - |
| CABEZONE | - | - | 1,000 | 62 | - | - |
| FLOUNDERS: | | | | | | |
| CALIFORNIA HALIBUT | - | - | 49,900 | 11,201 | - | - |
| "SOLE", UNCLASSIFIED | - | - | 300 | 19 | - | - |
| OTHER | - | - | 3,600 | 318 | - | - |
| KING CROAKER | - | - | 1,000 | 78 | - | - |
| LINGCOD | - | - | 31,300 | 2,950 | - | - |
| MACKEREL: | | | | | | |
| JACK | - | - | - | - | 2,800 | \$141 |
| PACIFIC | - | - | - | - | 123,900 | 2,543 |
| PERCH | 14,000 | 3,126 | 3,000 | 669 | - | - |
| ROCKFISHES | - | - | 152,000 | 7,129 | - | - |
| SALMON: | | | | | | |
| CHINOOK OR KING | - | - | 133,400 | 76,201 | - | - |
| SILVER OR COHO | - | - | 100 | 50 | - | - |
| SCULPIN | - | - | 100 | 29 | - | - |
| SEA BASS: | | | | | | |
| BLACK | - | - | 2,200 | 288 | - | - |
| WHITE | 94,400 | 29,018 | 6,900 | 2,121 | - | - |
| SHARKS, UNCLASSIFIED | 94,100 | 7,942 | 3,000 | 253 | - | - |
| SHEEPSHEAD | - | - | 1,100 | 54 | - | - |
| SWORDFISH | - | - | 3,200 | 1,352 | - | - |
| TUNA, ALBACORE | - | - | 683,800 | 108,683 | - | - |
| YELLOWTAIL | - | - | 7,800 | 547 | - | - |
| TOTAL | 352,500 | 63,171 | 1,088,300 | 212,694 | 126,700 | 2,684 |

| SPECIES | HARPOONS | | TONGS AND BY HAND | | DIVING OUTFITS | |
|----------------------------|----------|----------|-------------------|----------|----------------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| SWORDFISH | 60,200 | \$25,350 | - | - | - | - |
| ABALONE | - | - | - | - | 629,100 | \$462,321 |
| OYSTERS, PACIFIC | - | - | 133,100 | \$22,187 | - | - |
| TOTAL | 60,200 | 25,350 | 133,100 | 22,187 | 629,100 | 462,321 |

PACIFIC COAST FISHERIES

SAN PEDRO DISTRICT OF CALIFORNIA - OPERATING UNITS, 1961

| ITEM | PURSE SEINES AND LAMPARA NETS | | | | |
|------------------------------|-------------------------------|---------|--------|--------|--------|
| | MACKEREL | SARDINE | SQUID | TUNA | OTHER |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | |
| ON VESSELS | 617 | 576 | 39 | 1,422 | 59 |
| ON BOATS AND SHORE | - | - | - | - | 9 |
| TOTAL | 617 | 576 | 39 | 1,422 | 68 |
| VESSELS, MOTOR | 74 | 68 | 7 | 119 | 12 |
| GROSS TONNAGE | 5,500 | 5,188 | 197 | 31,961 | 317 |
| BOATS, MOTOR | 52 | 49 | 1 | 185 | 3 |
| GEAR: | | | | | |
| NUMBER | 74 | 68 | 7 | 119 | 15 |
| LENGTH, YARDS | 37,600 | 35,050 | 2,300 | 84,850 | 4,780 |

| ITEM | POTS, LOBSTER | GILL NETS, DRIFT | | | TRAMMEL NETS |
|------------------------------|------------------|------------------|----------|--------|-----------------|
| | | BARRACUDA | SEA BASS | OTHER | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | |
| ON VESSELS | 37 | 21 | 19 | 13 | - |
| ON BOATS AND SHORE | 122 | 26 | 20 | - | 2 |
| TOTAL | 159 | 47 | 39 | 13 | 2 |
| VESSELS, MOTOR | 16 | 6 | 8 | 5 | - |
| GROSS TONNAGE | 250 | 147 | 121 | 68 | - |
| BOATS, MOTOR | 73 | 13 | 10 | - | 1 |
| GEAR: | | | | | |
| NUMBER | 5,940 | 21 | 18 | 5 | 1 |
| SQUARE YARDS | - | 60,700 | 51,600 | 17,100 | 5,500 |

| ITEM | LINES | | | | | |
|------------------------------|----------|----------|-----------|--------|----------|-------|
| | HAND | | | TROLL | | |
| | ROCKFISH | ALBACORE | YELLOWFIN | SALMON | ALBACORE | OTHER |
| NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| FISHERMEN: | | | | | | |
| ON VESSELS | - | 349 | 266 | 19 | 733 | 4 |
| ON BOATS AND SHORE | 51 | 30 | - | 4 | 194 | 14 |
| TOTAL | 51 | 379 | 266 | 23 | 927 | 18 |
| VESSELS, MOTOR | - | 127 | 25 | 6 | 279 | 2 |
| GROSS TONNAGE | - | 3,377 | 4,563 | 194 | 6,867 | 34 |
| BOATS, MOTOR | 25 | 22 | 25 | 2 | 97 | 7 |
| GEAR: | | | | | | |
| NUMBER | 51 | 379 | 245 | 46 | 3,384 | 60 |
| HOOKS | 102 | 379 | 245 | 192 | 3,384 | 60 |

| ITEM | LINES- CONTINUED | DIP, BRAIL, OR SCOOP NETS | HARPOONS, SWORDFISH | DIVING OUTFITS, ABALONE | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|------------------------------|---------------------|---------------------------------|------------------------|-------------------------------|--|
| | | | | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | |
| ON VESSELS | 37 | 113 | 34 | 26 | 3,013 |
| ON BOATS AND SHORE | 35 | 46 | 82 | 90 | 523 |
| TOTAL | 72 | 161 | 116 | 116 | 3,536 |
| VESSELS, MOTOR | 16 | 49 | 14 | 11 | 576 |
| GROSS TONNAGE | 302 | 642 | 239 | 265 | 47,607 |
| BOATS, MOTOR | 20 | 24 | 41 | 45 | 522 |
| GEAR: | | | | | |
| NUMBER | 320 | 161 | 55 | 56 | - |
| HOOKS | 26,800 | - | - | - | - |

PACIFIC COAST FISHERIES

319

SAN PEDRO DISTRICT OF CALIFORNIA - CATCH BY GEAR, 1961

| SPECIES | PURSE SEINES AND LAMPARA NETS | | POTS AND TRAPS | | GILL AND TRAMMEL NETS | |
|-------------------------------|-------------------------------|-------------------|----------------|----------------|-----------------------|----------------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ANCHOVIES | 3,640,400 | \$50,237 | - | - | - | - |
| BARRACUDA | - | - | - | - | 477,600 | \$72,022 |
| BONITO | 7,603,600 | 194,014 | - | - | - | - |
| FLOUNDERS, CALIFORNIA HALIBUT | - | - | - | - | 42,600 | 11,041 |
| FLYING FISH | 7,800 | 936 | - | - | 20,000 | 2,403 |
| HALFMOON | - | - | - | - | 2,000 | 501 |
| HERRING, SEA | 8,500 | 425 | - | - | - | - |
| KING CROAKER | 200,000 | 7,992 | - | - | 443,500 | 17,717 |
| MACKEREL: | | | | | | |
| JACK | 79,139,700 | 1,658,422 | - | - | - | - |
| PACIFIC | 38,783,000 | 842,754 | - | - | - | - |
| PERCH | - | - | - | - | 3,700 | 729 |
| POMPANO | 8,000 | 1,698 | - | - | - | - |
| SARDINE, PACIFIC | 33,429,500 | 866,671 | - | - | - | - |
| SEA BASS: | | | | | | |
| BLACK | - | - | - | - | 290,000 | 48,082 |
| WHITE | - | - | - | - | 336,000 | 112,486 |
| SHARKS, UNCLASSIFIED | - | - | - | - | 240,000 | 30,816 |
| SHELL | 67,000 | 1,701 | - | - | 34,700 | 862 |
| TUNA: | | | | | | |
| ALBACORE | 2,000,000 | 362,631 | - | - | - | - |
| BLUEFIN | 20,419,400 | 2,646,119 | - | - | - | - |
| SKIPJACK | 34,906,700 | 3,853,700 | - | - | - | - |
| YELLOWFIN | 141,069,700 | 17,901,700 | - | - | - | - |
| YELLOWTAIL | 240,700 | 16,957 | - | - | - | - |
| CRABS, ROCK | - | - | 73,100 | \$7,924 | - | - |
| LOBSTERS, SPINY | - | - | 203,500 | 142,930 | - | - |
| OCTOPUS | - | - | - | - | 100 | 32 |
| SQUID | 4,026,600 | 67,858 | - | - | - | - |
| TOTAL | 365,550,600 | 28,473,815 | 276,600 | 150,854 | 1,892,200 | 296,711 |

| SPECIES | LINES | | DIP, BRAIL, OR SCOOP NETS | |
|-------------------------|-------------------|------------------|---------------------------|---------------|
| | POUNDS | VALUE | POUNDS | VALUE |
| BARRACUDA | 41,600 | \$6,284 | - | - |
| BONITO | 844,800 | 21,550 | - | - |
| CABRILLA | 11,000 | 1,750 | - | - |
| FLOUNDERS: | | | | |
| CALIFORNIA HALIBUT | 85,200 | 22,075 | - | - |
| SAND DABS | 300 | 64 | - | - |
| "SOLE", UNCLASSIFIED | 1,700 | 135 | - | - |
| FLYING FISH | - | - | 5,000 | \$600 |
| GROUPERS | 190,000 | 41,056 | - | - |
| HALFMOON | 3,900 | 977 | - | - |
| LINGCOD | 100 | 15 | - | - |
| MACKEREL, PACIFIC | 35,100 | 973 | 2,726,500 | 59,246 |
| OPALEYE | 2,300 | 352 | - | - |
| POMPANO | 2,200 | 468 | - | - |
| ROCK BASS | 1,400 | 260 | - | - |
| ROCKFISHES | 584,300 | 73,734 | - | - |
| SABLEFIN | 900 | 116 | - | - |
| SALMON, CHINOOK OR KING | 13,200 | 6,568 | - | - |
| SCULPIN | 7,800 | 2,659 | - | - |
| SEA BASS: | | | | |
| BLACK | 18,800 | 3,127 | - | - |
| WHITE | 9,200 | 3,088 | - | - |
| SHARKS, UNCLASSIFIED | 30,400 | 3,915 | - | - |
| SHEEPSHEAD | 3,900 | 268 | - | - |
| SERRA | 600 | 19 | - | - |
| SKATES | 300 | 53 | - | - |
| SWORDFISH | 25,900 | 11,575 | - | - |
| TUNA: | | | | |
| ALBACORE | 9,993,600 | 1,808,841 | - | - |
| SKIPJACK | 14,257,700 | 1,577,012 | - | - |
| YELLOWFIN | 22,964,800 | 2,922,205 | - | - |
| WAHOO | 9,300 | 3,249 | - | - |
| YELLOWTAIL | 60,000 | 4,229 | - | - |
| UNCLASSIFIED, FOR FOOD | 16,300 | 1,164 | - | - |
| TOTAL | 49,216,600 | 6,517,781 | 2,731,500 | 59,846 |

| SPECIES | HARPOONS | | DIVING OUTFITS | |
|--------------|----------------|----------------|----------------|----------------|
| | POUNDS | VALUE | POUNDS | VALUE |
| SWORDFISH | 233,400 | \$104,096 | - | - |
| ABALONE | - | - | 200,500 | \$104,068 |
| TOTAL | 233,400 | 104,096 | 200,500 | 104,068 |

PACIFIC COAST FISHERIES

SAN DIEGO DISTRICT OF CALIFORNIA - OPERATING UNITS, 1961

| ITEM | PURSE SEINES AND LAMPARA NETS | | POTS AND TRAPS | |
|------------------------------|-------------------------------|--------|----------------|---------|
| | TUNA | OTHER | CRAB | LOBSTER |
| | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | |
| ON VESSELS | 166 | 18 | - | 9 |
| ON BOATS AND SHORE | - | - | 2 | 81 |
| TOTAL | 166 | 18 | 2 | 90 |
| VESSELS, MOTOR | 13 | 3 | - | 4 |
| GROSS TONNAGE | 4,782 | 119 | - | 79 |
| BOATS, MOTOR | 23 | - | 1 | 54 |
| GEAR: | | | | |
| NUMBER | 13 | 3 | 60 | 3,540 |
| LENGTH, YARDS | 10,200 | 1,200 | - | - |

| ITEM | GILL NETS, DRIFT | | LINES | |
|------------------------------|------------------|----------|----------|----------|
| | BARRACUDA | SEA BASS | HAND | |
| | | | ROCKFISH | ALBACORE |
| | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | |
| ON VESSELS | 6 | 23 | - | 356 |
| ON BOATS AND SHORE | 8 | 20 | 54 | 50 |
| TOTAL | 14 | 43 | 54 | 406 |
| VESSELS, MOTOR | 3 | 8 | - | 128 |
| GROSS TONNAGE | 65 | 117 | - | 3,125 |
| BOATS, MOTOR | 4 | 10 | 36 | 35 |
| GEAR: | | | | |
| NUMBER | 7 | 18 | 54 | 405 |
| SQUARE YARDS | 19,900 | 52,700 | - | - |
| HOOKS | - | - | 108 | 405 |

| ITEM | LINES - CONTINUED | | | DIP, BRAIL, OR SCOOP NETS |
|------------------------------|-------------------|--------------------|----------------|------------------------------------|
| | HAND - CONTINUED | TROLL, ALBACORE | LONG OR SET | |
| | YELLOWFIN | | | |
| | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | |
| ON VESSELS | 284 | 502 | 4 | 4 |
| ON BOATS AND SHORE | - | 106 | 11 | - |
| TOTAL | 284 | 608 | 15 | 4 |
| VESSELS, MOTOR | 24 | 187 | 2 | 2 |
| GROSS TONNAGE | 5,705 | 4,401 | 32 | 37 |
| BOATS, MOTOR | 24 | 71 | 7 | - |
| GEAR: | | | | |
| NUMBER | 246 | 2,322 | 76 | 4 |
| HOOKS | 246 | 2,322 | 6,480 | - |

| ITEM | HARPOONS, SWORDFISH | SHOVELS, CLAM | DIVING OUTFITS, ABALONE | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|------------------------------|------------------------|------------------|-------------------------------|--|
| | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | |
| ON VESSELS | 11 | - | - | 1,076 |
| ON BOATS AND SHORE | 18 | 6 | 52 | 341 |
| TOTAL | 29 | 6 | 52 | 1,417 |
| VESSELS, MOTOR | 5 | - | - | 268 |
| GROSS TONNAGE | 63 | - | - | 16,059 |
| BOATS, MOTOR | 10 | - | 26 | 242 |
| GEAR, NUMBER | 15 | 6 | 26 | - |

PACIFIC COAST FISHERIES

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SAN DIEGO DISTRICT OF CALIFORNIA - CATCH BY GEAR, 1961

| SPECIES | PURSE SEINES AND LAMPARA NETS | | POTS AND TRAPS | |
|-----------------------------|-------------------------------------|-----------|----------------|--------|
| | POUNDS | VALUE | POUNDS | VALUE |
| BARRACUDA | 18,000 | \$2,345 | - | - |
| BONITO | 43,000 | 2,277 | - | - |
| MACKEREL, PACIFIC | 72,500 | 2,716 | - | - |
| SARDINE, PACIFIC | 47,600 | 3,444 | - | - |
| TUNA: | | | | |
| BLUEFIN | 463,300 | 58,694 | - | - |
| SKIPJACK | 11,529,300 | 1,269,505 | - | - |
| YELLOWFIN | 23,924,800 | 3,108,940 | - | - |
| YELLOWTAIL | 59,300 | 4,927 | - | - |
| CRABS, ROCK | - | - | 1,100 | \$32 |
| LOBSTERS, SPINY | - | - | 136,600 | 89,472 |
| SQUID | 1,900 | 74 | - | - |
| TOTAL | 36,159,700 | 4,452,922 | 137,700 | 89,504 |

| SPECIES | GILL NETS | | LINES | |
|----------------------------------|-----------|---------|------------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE |
| BARRACUDA | 9,000 | \$1,173 | 8,800 | \$1,145 |
| FLOUNDERS: | | | | |
| CALIFORNIA HALIBUT | 34,800 | 7,865 | 240,000 | 54,253 |
| "SOLE", UNCLASSIFIED | - | - | 10,400 | 2,487 |
| GROUPERS | - | - | 12,300 | 1,883 |
| KING CROAKER | 2,500 | 248 | - | - |
| LINGCOD | - | - | - | - |
| PERCH | 100 | 10 | 100 | 5 |
| ROCK BASS | - | - | 1,207 | 252 |
| ROCKFISHES | - | - | 358,300 | 39,481 |
| SABLEFISH | - | - | 1,600 | 196 |
| SCULPIN | - | - | 18,700 | 4,765 |
| SEA BASS: | | | | |
| BLACK | - | - | 29,400 | 4,743 |
| WHITE | 180,000 | 50,973 | 21,200 | 6,004 |
| SHARKS, UNCLASSIFIED | 70,000 | 7,680 | 14,600 | 1,602 |
| SHEEPSHEAD | - | - | 7,700 | 611 |
| SIERRA | - | - | 100 | 17 |
| SWORDFISH | - | - | 4,700 | 2,023 |
| TUNA: | | | | |
| ALBACORE | - | - | 9,701,600 | 1,754,668 |
| SKIPJACK | - | - | 4,709,100 | 518,472 |
| YELLOWFIN | - | - | 3,894,700 | 505,922 |
| YELLOWTAIL | - | - | 13,000 | 1,079 |
| UNCLASSIFIED, FOR FOOD | - | - | 8,000 | 616 |
| TOTAL | 296,400 | 67,949 | 19,055,500 | 2,900,224 |

| SPECIES | DIP, BRAIL, OR SCOOP NETS | | HARPOONS | |
|-----------------------------|------------------------------|-------|----------|----------|
| | POUNDS | VALUE | POUNDS | VALUE |
| MACKEREL, PACIFIC | 5,000 | \$187 | - | - |
| SWORDFISH | - | - | 41,000 | \$17,647 |
| TOTAL | 5,000 | 187 | 41,000 | 17,647 |

| SPECIES | SHOVELS | | DIVING OUTFITS | |
|-----------------------|---------|---------|----------------|----------|
| | POUNDS | VALUE | POUNDS | VALUE |
| ABALONE | - | - | 76,200 | \$35,992 |
| CLAMS, HARD | 1,400 | \$2,480 | - | - |
| TOTAL | 1,400 | 2,480 | 76,200 | 35,992 |

PACIFIC COAST FISHERIES

LANDINGS BY HALIBUT FLEET AT SEATTLE, WASHINGTON

Landings of halibut at Seattle, Washington in 1961 by the United States halibut fleet amounted to 12.6 million pounds valued at \$3 million. This was 3.1 million pounds or 20 percent less than in 1960, but an increase of \$75,000, or nearly 3 percent. In 1961, ex-vessel halibut prices at Seattle reached the highest level since 1958.

Landings of halibut from fishing grounds west of Cape Spencer decreased 2.4 million pounds compared with 1960. Sablefish landings from grounds south of Cape Spencer amounted to 1.4 million pounds--1.3 million pounds less than in the previous year.

The following tables contain a summary of the landings of dressed halibut at Seattle by the United States halibut fleet. These data are not directly comparable with the State and sectional tabulations, since the weights in those tables represent the round weight of fish landed.

LANDINGS BY THE HALIBUT FLEET AT SEATTLE, BY FISHING GROUNDS, 1961

| FISHING GROUNDS | HALIBUT (DRESSED) | | | | | | | |
|---------------------------------|-------------------|----------|-------|----------|--------|----------|-------|--|
| | TRIPS | CHICKEN | | | MEDIUM | | LARGE | |
| | NUMBER | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | |
| WEST OF CAPE SPENCER, | 148 | 72 | 13 | 5,801 | 1,347 | 2,933 | 758 | |
| SOUTH OF CAPE SPENCER | 253 | 760 | 137 | 2,150 | 532 | 288 | 76 | |
| TOTAL | 381 | 832 | 150 | 7,951 | 1,679 | 3,221 | 836 | |

| FISHING GROUNDS | HALIBUT (DRESSED) - CONTINUED | | | | SABLEFISH | | TOTAL | |
|---------------------------------|-------------------------------|-------|-------------|-------|-----------|-------|----------|-------|
| | NO. 2 MEDIUM | | NO. 2 LARGE | | QUANTITY | VALUE | QUANTITY | VALUE |
| | QUANTITY | VALUE | QUANTITY | VALUE | | | | |
| WEST OF CAPE SPENCER, | 435 | 86 | 90 | 20 | - | - | 9,331 | 2,224 |
| SOUTH OF CAPE SPENCER | 66 | 14 | 5 | 1 | 1,434 | 288 | 4,703 | 1,050 |
| TOTAL | 501 | 100 | 95 | 21 | 1,434 | 288 | 14,034 | 3,274 |

SEE NOTE AT END OF NEXT TABLE.

LANDINGS BY THE HALIBUT FLEET AT SEATTLE, BY MONTHS, 1961

| MONTHS | HALIBUT (DRESSED) | | | | | | | |
|---------------------|-------------------|----------|-------|----------|--------|----------|-------|--|
| | TRIPS | CHICKEN | | | MEDIUM | | LARGE | |
| | NUMBER | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | |
| APRIL | 15 | 17 | 3 | 728 | 167 | 64 | 17 | |
| MAY | 83 | 175 | 31 | 2,961 | 645 | 1,080 | 257 | |
| JUNE | 68 | 255 | 46 | 1,597 | 373 | 852 | 213 | |
| JULY | 43 | 271 | 49 | 958 | 230 | 354 | 95 | |
| AUGUST | 48 | 82 | 15 | 1,070 | 263 | 528 | 151 | |
| SEPTEMBER | 54 | 31 | 6 | 407 | 111 | 191 | 57 | |
| OCTOBER | 60 | 1 | (1) | 218 | 66 | 152 | 46 | |
| NOVEMBER | 10 | - | - | 12 | 4 | - | - | |
| TOTAL | 381 | 832 | 150 | 7,951 | 1,679 | 3,221 | 836 | |

| MONTHS | HALIBUT (DRESSED) - CONTINUED | | | | SABLEFISH | | TOTAL | |
|---------------------|-------------------------------|-------|-------------|-------|-----------|-------|----------|-------|
| | NO. 2 MEDIUM | | NO. 2 LARGE | | QUANTITY | VALUE | QUANTITY | VALUE |
| | QUANTITY | VALUE | QUANTITY | VALUE | | | | |
| APRIL | 40 | 6 | 6 | 6 | - | - | 6 | 195 |
| MAY | 160 | 29 | 26 | 5 | - | 3 | 4,422 | 970 |
| JUNE | 98 | 18 | 13 | 3 | 20 | 1 | 2,819 | 654 |
| JULY | 56 | 11 | 8 | 2 | 20 | 3 | 1,667 | 390 |
| AUGUST | 90 | 20 | 21 | 5 | 101 | 19 | 1,892 | 493 |
| SEPTEMBER | 31 | 7 | 8 | 2 | 548 | 105 | 1,216 | 288 |
| OCTOBER | 26 | 7 | 11 | 3 | 604 | 124 | 1,012 | 246 |
| NOVEMBER | - | - | - | - | 137 | 33 | 149 | 37 |
| TOTAL | 501 | 100 | 95 | 21 | 1,434 | 288 | 14,034 | 3,274 |

1/ LESS THAN \$500.

NOTE:--THE 1961 PACIFIC HALIBUT FISHING SEASON OPENED ON APRIL 10, IN AREA 3 B (NORTH). AREA 3 B (SOUTH) OPENED ON APRIL 25. AREAS 1A, 1B, 2, AND 3A OPENED TO HALIBUT FISHING ON MAY 10. AREA 3A CLOSED TO HALIBUT FISHING ON AUGUST 23. AREAS 2 AND 1B CLOSED TO HALIBUT FISHING ON SEPTEMBER 7. AREAS 1A AND 3B CLOSED TO HALIBUT FISHING ON OCTOBER 1. ALL AREAS OPENED OR CLOSED AT 6 A.M. PACIFIC STANDARD TIME.

PACIFIC COAST FISHERIES

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WHALING

During the 1961 season, two companies again carried on whaling operations from shore stations located on Point San Pablo, Richmond, California. A third company began whaling from a shore station at the mouth of the Columbia River. The two stations in California used the same five catcher boats operated in previous years, while the Oregon company used only one catcher boat. The season was the same as in 1960--April 16 through October 15.

The total catch of 343 whales, 72 more than in 1960, made the season the most successful since whaling resumed on the Pacific Coast of the United States in 1956. The catch was processed into 3 million pounds of whale meat and 3.5 million pounds of sperm oil, whale oil, and condensed solubles. These products were valued at \$847,000 to the producers. Compared with 1960, this represented a gain of 15 percent in volume and 26 percent in value. One factor responsible for the gain was the much higher catch of sperm whales--104 compared with only 16 in 1960. In previous years, the catcher vessels largely neglected sperm whales because of the relative undesirability of the meat, and the low prices paid for the oil. However, with sperm oil prices up in 1961, and the whales more numerous than usual, catcher boats spent more time in pursuit of this species.

An unusual feature of the 1961 season was the large proportion of female sperm whales in the catch; previously only two females had been taken, both in 1960. Female sperms usually remain in warmer waters, and are infrequently encountered off the west coast above latitude 35° north. However, several times during the season the boats encountered harem schools containing up to 50 sperm whales, mostly females. Although most females fall below the 35-foot legal size limit, enough larger ones were encountered to bring the female catch to 43.

Many fin whales, economically the most important species, were taken early in the season when their euphausiid feed was abundant, but they disappeared from the area in early August, and the total catch of 118 fin whales was considerably below the 138 taken in 1960. Humpback whales, which have been seriously depleted locally, showed a further decline in catch. The catch of sei whales continues to increase as the larger species of baleen whales become less available. Blue whales rarely occur in any numbers in central California waters, and then only in late September and October. Only two were taken.

WHALE CATCH, 1961

| MONTH | BLUE | BOTTLENOSE | FIN | HUMPBACK | SEI | SPERM | TOTAL |
|---------------------|--------|------------|--------|----------|--------|--------|--------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| APRIL | - | - | - | 8 | - | 16 | 24 |
| MAY | - | - | 37 | 19 | - | 12 | 68 |
| JUNE | - | 1 | 19 | 17 | - | 13 | 50 |
| JULY | - | 3 | 30 | 4 | 11 | 7 | 55 |
| AUGUST | - | - | 32 | 7 | 25 | 17 | 82 |
| SEPTEMBER | - | - | 2 | 7 | 7 | 21 | 30 |
| OCTOBER | 2 | - | - | 7 | 7 | 18 | 34 |
| TOTAL | 2 | 4 | 118 | 64 | 51 | 104 | 343 |

WHALE PRODUCTS, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| ITEM | QUANTITY | VALUE |
|-------------------------------|----------|-------|
| MEAL | 3,316 | 203 |
| MEAT | 5,010 | 401 |
| OIL: | | |
| SPERM | 696 | 63 |
| WHALE | 2,774 | 179 |
| SOLUBLES, CONDENSED | 28 | 1 |
| TOTAL | 11,624 | 847 |

NOTE: --TO CONVERT POUNDS OF OIL TO GALLONS, DIVIDE BY 7.5.

PACIFIC COAST FISHERIES

FUR SEAL INDUSTRY OF THE PRIBILOF ISLANDS

A total of 95,974 sealskins was harvested on the Pribilof Islands in 1961--the third largest production in this century. Only in 1943 (117,184 skins) and in 1956 (122,826 skins) was the yield greater. During the season (July 2 to August 15), 82,099 male and 13,875 female skins were taken, compared with 36,320 male and 4,296 female skins during the 1960 season. Not included in these totals were rejected skins or those used for research purposes. The near-record yield in 1961, derived mostly from the 1957 and 1958 year classes, resulted from three principal factors:

(1) An unusual abundance of 3-year-olds, which made up 70 percent of the seasonal total instead of the normal 60 percent.

(2) The long season of 45 days, 10 days more than the long-term average. Although it had been anticipated that deliberate killing of males would end on August 5 or 10, 3-year-old bachelors continued in such good supply, size, and quality that they were utilized until August 15. The accumulated 53,000-kill of both sexes through July was better than in any year since 1956. The seasonal peak of bachelor abundance, which formerly occurred within the last 10 days of July, has been trending later in recent years.

(3) The upper limit of the killable length range was raised this year from 45.75 inches to 47.75 inches. This contributed 7,000 additional males to the total. In 1960, less than 2,000 bachelors 46 inches and over were taken.

To carry out the objective of generally reducing the overall size of the herd as agreed at the Fourth International Fur Seal Commission meeting at Tokyo last February, cow-kill quotas for 1961 were set at 35,000 for St. Paul and 8,750 for St. George. An effort was made to take as many as possible of the females appearing in the regular drives; totals reached 10,495 and 3,623 killed on the respective islands by August 15. The remaining females in the quota were killed after the supply ship left on August 28 when manpower could be released from loading operations. The program was completed on September 7 at St. George and on September 14 at St. Paul, with total female kills for the season of 8,763 and 35,082 respectively, 5,140 and 24,587 of which were taken after the regular season. Because the fur is in moulting condition (stagey) so late in the season, the pelts were not salvaged.

The large kill in 1961 offered no threat to the seal resource. An ample breeding reserve of males was assured by escapement of a portion of the two important age groups during and after the season.



Fur Seal (bull)

PACIFIC COAST FISHERIES

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CLASSES OF SEALS TAKEN ON THE PRIBILOF ISLANDS, BY AGE AND OVERALL MEASUREMENT, 1961

| ITEM | ST. PAUL ISLAND | | ST. GEORGE ISLAND | | TOTAL | | GRAND TOTAL |
|----------------------------------|-----------------|---------------|-------------------|--------------|---------------|---------------|---------------|
| | MALE | FEMALE | MALE | FEMALE | MALE | FEMALE | |
| BY AGE: | | | | | | | |
| 1-YEAR-OLDS | 15 | - | - | - | 15 | - | 15 |
| 2-YEAR-OLDS | 2,820 | 35 | 891 | 8 | 3,711 | 43 | 3,754 |
| 3-YEAR-OLDS | 48,458 | 1,119 | 9,413 | 297 | 57,871 | 1,416 | 59,287 |
| 4-YEAR-OLDS | 15,344 | 2,006 | 4,492 | 587 | 19,836 | 2,593 | 22,429 |
| 5-YEAR-OLDS | 532 | 1,068 | 218 | 373 | 750 | 1,441 | 2,191 |
| 6-YEAR-OLDS | - | 1,167 | 14 | 375 | 14 | 1,542 | 1,556 |
| 7-YEAR-OLDS | - | 577 | - | 242 | - | 819 | 819 |
| 8-YEAR-OLDS | - | 500 | - | 182 | - | 682 | 682 |
| 9-YEAR-OLDS | - | 703 | - | 248 | - | 951 | 951 |
| 10-YEAR-OLDS AND OLDER | - | 3,320 | - | 1,311 | - | 4,631 | 4,631 |
| LESS REJECTS | 94 | 238 | 4 | 5 | 98 | 243 | 341 |
| TOTAL | 67,075 | 10,257 | 15,024 | 3,618 | 82,099 | 13,875 | 95,974 |
| BY MEASUREMENT: | | | | | | | |
| GROUP I-UP TO 36.75 IN. | 2 | - | 2 | - | 4 | - | 4 |
| GROUP II-37 TO 40.75 IN. | 1,170 | - | 420 | - | 1,590 | - | 1,590 |
| GROUP III-41 TO 45.75 IN. | 55,474 | - | 13,043 | - | 68,517 | - | 68,517 |
| GROUP IV-46 TO 51.75 IN. | 10,437 | - | 1,559 | - | 11,996 | - | 11,996 |
| GROUP V-52 TO 57.75 IN. | 85 | - | 4 | - | 89 | - | 89 |
| GROUP VI-58 TO 63.75 IN. | 1 | - | - | - | 1 | - | 1 |
| UNCLASSIFIED | - | 10,495 | - | 3,623 | - | 14,118 | 14,118 |
| LESS REJECTS | 94 | 238 | 4 | 5 | 98 | 243 | 341 |
| TOTAL | 67,075 | 10,257 | 15,024 | 3,618 | 82,099 | 13,875 | 95,974 |

NOTE:--AGE WAS DETERMINED BY COUNTING GROWTH RIDGES ON CANINE TEETH OF A 10 PERCENT SAMPLE OF KILLED ANIMALS. MEASUREMENTS ARE OVERALL LENGTHS TAKEN ON THE KILLING FIELD.



DISTRIBUTION OF TAKE OF SEALSKINS, 1961

The fur seal treaty specifies that Canada and Japan are to receive 15 percent each of the skins taken on the Pribilof Islands. To ensure an impartial selection of their respective 15 percent, Canada made a random choice of numbers 6, 14, and 20; and Japan 3, 5, and 7 out of each 20 barrels of sealskins. This resulted in the following allocation of skins to the United States, Canada, and Japan:

| ITEM | UNITED STATES | CANADA | JAPAN | TOTAL |
|--------------------------------|---------------|---------------|---------------|---------------|
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| FROM ST. PAUL ISLAND: | | | | |
| MALE SKINS | 46,951 | 10,062 | 10,062 | 67,075 |
| FEMALE SKINS | 7,175 | 1,541 | 1,541 | 10,257 |
| TOTAL SKINS | 54,126 | 11,603 | 11,603 | 77,332 |
| FROM ST. GEORGE ISLAND: | | | | |
| MALE SKINS | 10,518 | 2,253 | 2,253 | 15,024 |
| FEMALE SKINS | 2,536 | 541 | 541 | 3,618 |
| TOTAL SKINS | 13,054 | 2,794 | 2,794 | 18,642 |
| FROM BOTH ISLANDS: | | | | |
| MALE SKINS | 57,469 | 12,315 | 12,315 | 82,099 |
| FEMALE SKINS | 9,711 | 2,082 | 2,082 | 13,875 |
| GRAND TOTAL | 67,180 | 14,997 | 14,397 | 95,974 |

NOTE:--DOES NOT INCLUDE 220 SKINS REJECTED DURING PROCESSING, 117 FEMALE SKINS FOR RESEARCH PURPOSES, 1 SKIN REJECTED ON THE FIELD, AND 3 SKINS MISCOUNTED AND NOT LOCATED.

PACIFIC COAST FISHERIES

SALE OF SEALSKINS, 1961

Two public and one special sealskin auction were held in St. Louis, Missouri, in 1961. A total of 62,706 skins was sold for the account of the United States Government. Gross receipts from the three auctions yielded \$4,183,403. The offerings consisted of 44,234 conventionally processed skins which yielded \$3,860,634 and 18,472 sheared skins which sold for \$322,769. The latter were the first sheared "Lakoda" skins offered for sale. The average price of \$21.06 per skin was far below the \$87.28 received for conventionally processed skins. An additional three sheared "Lakoda" skins were sold at private sales for promotional purposes. These yielded \$67.50.

A SMALL FAMILY OF FUR SEALS



PRODUCTION OF FUR SEAL MEAL AND OIL, 1961

The operation of the fur seal industrial products reduction plant on St. Paul Island was terminated on August 16. A total of 45,772 carcasses was processed into meal and oil. In 1961, production of industrial products amounted to 312 tons of meal and 52,458 gallons of oil.

| ITEM | UNIT | QUANTITY | VALUE |
|----------------|---------|----------|----------|
| MEAL | TONS | 312 | \$24,130 |
| OIL | GALLONS | 52,458 | 14,819 |



DISTRIBUTION OF PRIBILOF ISLANDS RECEIPTS, FISCAL YEAR 1961

| ITEM | AMOUNT |
|---|-------------|
| COST OF HANDLING, DRESSING, DYEING, AND SELLING PRODUCTS. | \$1,647,897 |
| COST OF ADMINISTRATION OF THE ISLANDS | 1,743,674 |
| PAYMENT TO THE STATE OF ALASKA, | 536,809 |
| NET RECEIPTS TO THE UNITED STATES GOVERNMENT. | 559,379 |
| TOTAL | 4,487,759 |

SECTION 8 - GREAT LAKES FISHERIES

The combined United States and Canadian commercial fish catch from the waters of the Great Lakes (113.4 million pounds) and the International Lakes of northern Minnesota (6.9 million pounds) was over 10 million pounds or 9 percent greater than in 1960. The catch in the Great Lakes was up 8.7 million pounds, and in the International Lakes, 1.5 million pounds. United States fishermen accounted for 59 percent of the landings. The Canadian catch increased from 42 million pounds in 1960 to 50 million pounds in 1961, while United States landings increased from 68 million to 71 million pounds. The Canadian catch of yellow perch from Lake Erie (17 million pounds) was 48 percent larger than in the previous year and accounted for most of the increased United States-Canadian landings. Alewives and tullibee were also landed in larger volume while other important species were taken in about the same volume as in 1960.

United States fishermen took 70.6 million pounds of fish valued at \$7 million in 1961. Landings were 2.4 million pounds or 4 percent larger than in 1960, although the value of the catch was \$162,000 or 2 percent less. Catches of alewives, carp, lake herring, and sheepshead were slightly above those taken in 1960; while smaller quantities of smelt, yellow perch, and yellow pike were taken.

Lake Michigan led all the other lakes in production with 25.6 million pounds or 36 percent of the total United States catch. Lake Erie was second (19.6 million pounds), followed by Lake Superior (14.7 million pounds). Lake Ontario, Lake Huron, and the International Lakes accounted for the remaining 10.7 million pounds.

Among the eight Great Lakes States, Michigan continued to lead in production with 24.5 million pounds. Wisconsin was in second place with 21.9 million pounds, followed by Ohio, 15.8 million pounds. These three States accounted for 88 percent of the volume and 91 percent of the value of the 1961 catch.

In 1961, a total of 3,773 men, 469 vessels of 5 net tons and over, and 1,480 other craft was employed in the commercial fisheries of this area. The number of vessels fishing was less than in the previous year. As a result of the poor economic condition of the Great Lakes fisheries for a number of years, there has been a steady decline in the number of vessels operated on the lakes. Since 1950, the number has dropped from 661 to 469--a decrease of 192 or 29 percent.

The sea lamprey invasion into the Great Lakes in the 1930's caused a drastic change in the abundance of fish. After decimating stocks of lake trout, the lamprey attacked whitefish and other species. Accompanying the decline in the abundance of lake trout and whitefish was a great increase in the number of fish, such as chubs and alewives, which formerly were preyed upon by the lake trout and whitefish.

Bureau efforts in the Great Lakes have been concentrated on bringing the sea lamprey under control, restoring lake trout stocks, and developing methods for capturing and utilizing supplies of presently abundant species.

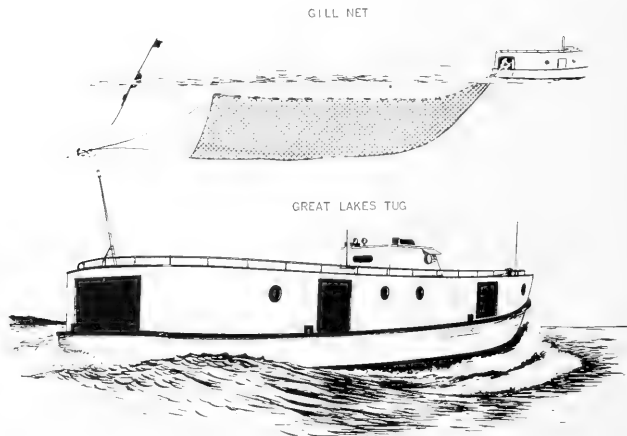
Under the auspices of the International Great Lakes Fishery Commission, the U. S. Bureau of Commercial Fisheries and the Fisheries Research Board of Canada treated, with a selective toxicant, all tributary streams of Lake Superior known to contain larval sea lampreys. The project, started in 1958, represents a major accomplishment in the field of chemical control of an undesirable species. Success in controlling the sea lamprey in Lake Superior has brought renewed hope for other lakes where valuable stocks of commercial species have become virtually extinct. Artificially propagated lake trout are being used to restock Lake Superior. Survival of hatchery-planted trout has been excellent and growth rapid, indicating a promising future for rehabilitating the fishery.

GREAT LAKES FISHERIES

Late in 1961, the Bureau's new research vessel Kaho, especially designed for exploratory fishing and gear research activities, joined the biological research vessel Cisco that has been used in fishery and environmental studies to learn more about factors that influence the abundance, growth, distribution, and movements of commercially important fish. The biological and exploratory fishing activities are part of an integrated Bureau program which also includes studies in processing, marketing, economics, and statistics of commercial fish. The object of this program is to develop optimum utilization of the commercial fishery resources of the Great Lakes.

Much of the data in this section was assembled and prepared for publication by the Bureau's Branch of Statistics and Branch of Inland Fisheries from information collected by the following agencies; Dominion Bureau of Statistics of Canada; Illinois Department of Conservation; Indiana Department of Conservation, Division of Fish and Game; Michigan Department of Conservation; Minnesota Department of Conservation; New York Conservation Department, Division of Fish and Game; Ohio Department of Natural Resources, Division of Wildlife, Section of Fish Management; Pennsylvania Fish Commission; and Wisconsin Conservation Department.

Condensed summary data on the operating units and catch of the Great Lakes fisheries appearing on the following pages have previously been published in Current Fishery Statistics No. 3183. Seasonal variations in the catch of fish landed in Minnesota, Wisconsin, Michigan, and Ohio can be ascertained from monthly landing bulletins issued currently in cooperation with the fishery departments of those States. Additional specific data on many aspects of the Great Lakes fisheries may be found in the daily, monthly, and annual reports published by the Bureau's Chicago Fishery Market News Office.



GREAT LAKES FISHERIES

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SUMMARY OF UNITED STATES AND CANADIAN CATCH, 1961

(THOUSANDS OF POUNDS)

| SPECIES | LAKE ONTARIO | | | LAKE ERIE | | | LAKE ST. CLAIR |
|--------------------------------|---------------|----------|----------|---------------|----------|----------|----------------|
| | UNITED STATES | CANADA | TOTAL | UNITED STATES | CANADA | TOTAL | CANADA |
| | QUANTITY | QUANTITY | QUANTITY | QUANTITY | QUANTITY | QUANTITY | QUANTITY |
| BLUE PIKE | 1 | 1 | 2 | 2 | 1 | 3 | - |
| BOWFIN | 2 | - | 19 | (1) | 285 | 285 | - |
| BUFFALOFISH | - | - | - | 19 | - | 19 | - |
| BULLHEADS | 71 | 185 | 256 | 89 | 41 | 130 | 9 |
| BURBOT | 1 | (1) | 1 | 7 | (1) | 7 | - |
| CARP | 49 | 314 | 363 | 4,699 | 252 | 4,951 | 230 |
| CATFISH | 3 | 14 | 17 | 1,626 | 126 | 1,754 | 79 |
| CHUBS | (1) | - | (1) | 3 | - | - | - |
| CISCO | 3 | - | - | 6 | 3 | 9 | - |
| CRAPPIE | (1) | - | (1) | - | - | - | - |
| EELS, COMMON | 30 | 125 | 155 | - | (1) | (1) | - |
| GARFISH | (1) | - | (1) | - | - | - | - |
| GIZZARD SHAD | - | - | - | 10 | - | 10 | - |
| GOLDFISH | - | - | - | 293 | - | 293 | - |
| LAKE HERRING | - | 51 | 51 | - | - | - | - |
| LAKE TROUT | 5 | 3 | 8 | (1) | (1) | (1) | - |
| MOONEYE | - | - | - | 2 | - | 2 | - |
| PIKE OR PICKEREL | - | 57 | 57 | 1 | 1 | 2 | 35 |
| ROCK BASS | 9 | 17 | 26 | 1 | 35 | 36 | 23 |
| SAUGER | - | 2 | 2 | (1) | (1) | (1) | 4 |
| SHEEPSHEAD | (1) | 16 | 16 | 5,764 | 1,116 | 6,880 | 22 |
| SMELT | (1) | 223 | 223 | 16 | 12,835 | 12,851 | - |
| STURGEON | 2 | 14 | 16 | (1) | 5 | 5 | 14 |
| SUCKERS | 19 | 50 | 69 | 330 | 73 | 403 | 132 |
| SUNFISH | 19 | 119 | 138 | - | 27 | 27 | 31 |
| WHITE BASS | 6 | 30 | 38 | 2,192 | 3,334 | 5,526 | 30 |
| WHITEFISH: COMMON | 59 | 572 | 631 | 6 | 9 | 15 | - |
| MEMONINEE | - | 1 | 1 | - | - | - | - |
| WHITE PERCH | 1 | - | 1 | - | - | - | - |
| YELLOW PERCH | 66 | 173 | 241 | 3,695 | 17,284 | 20,979 | 22 |
| YELLOW PIKE | 1 | 125 | 126 | 805 | 269 | 1,074 | 236 |
| TOTAL | 351 | 2,109 | 2,460 | 19,563 | 35,698 | 55,261 | 876 |

| SPECIES | LAKE HURON | | | LAKE MICHIGAN | LAKE SUPERIOR | | |
|--------------------------------|---------------|----------|----------|---------------|---------------|----------|----------|
| | UNITED STATES | CANADA | TOTAL | UNITED STATES | UNITED STATES | CANADA | TOTAL |
| | QUANTITY | QUANTITY | QUANTITY | QUANTITY | QUANTITY | QUANTITY | QUANTITY |
| ALEWIVES | 12 | - | 12 | 3,199 | (1) | - | (1) |
| BOWFIN | 2 | 8 | 10 | (1) | - | - | - |
| BULLHEADS | 12 | 1 | 13 | 33 | - | - | - |
| BURBOT | (1) | 1 | 1 | 5 | 5 | 4 | 9 |
| CARP | 1,437 | 43 | 1,480 | 1,842 | (1) | (1) | (1) |
| CATFISH | 239 | 12 | 251 | 1 | - | - | - |
| CHUBS | 3,197 | 2,373 | 5,570 | 12,133 | 1,166 | 81 | 1,267 |
| CRAPPIE | 3 | - | 3 | - | - | - | - |
| GARFISH | - | - | - | (1) | - | - | - |
| LAKE HERRING | 66 | 21 | 89 | 177 | 11,457 | 1,777 | 13,234 |
| LAKE TROUT | - | 2 | 2 | (1) | 323 | 48 | 371 |
| PIKE OR PICKEREL | 178 | 52 | 230 | 51 | (1) | 2 | 2 |
| QUILLBACK | 8 | - | 8 | - | - | - | - |
| ROCK BASS | 8 | 1 | 9 | (1) | - | - | - |
| SAUGER | (1) | (1) | (1) | (1) | (1) | 38 | 38 |
| SHEEPSHEAD | 32 | 29 | 61 | 2 | - | - | - |
| SMELT | 32 | 1 | 33 | 2,152 | 1,340 | (1) | 1,340 |
| STURGEON | 1 | 19 | 20 | 2 | (1) | 8 | 8 |
| SUCKERS | 551 | 230 | 781 | 494 | 47 | 21 | 68 |
| SUNFISH | - | (1) | (1) | - | - | - | - |
| WHITE BASS | 12 | 17 | 29 | (1) | - | - | - |
| WHITEFISH: COMMON | 438 | 1,027 | 1,465 | 395 | 343 | 119 | 462 |
| MEMONINEE | 9 | 13 | 22 | 17 | 42 | 7 | 49 |
| YELLOW PERCH | 598 | 1,093 | 1,691 | 4,959 | 5 | 22 | 27 |
| YELLOW PIKE | 81 | 264 | 345 | 97 | 1 | 227 | 228 |
| CRAWFISH | - | - | - | (1) | - | - | - |
| TOTAL | 6,918 | 5,207 | 12,125 | 25,559 | 14,749 | 2,354 | 17,103 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GREAT LAKES FISHERIES

SUMMARY OF UNITED STATES AND CANADIAN CATCH, 1961 - Continued
(THOUSANDS OF POUNDS)

| SPECIES | TOTAL, GREAT LAKES | | | LAKE OF THE WOODS | | |
|----------------------------|--------------------|----------|----------|-------------------|----------|----------|
| | UNITED STATES | CANADA | TOTAL | UNITED STATES | CANADA | TOTAL |
| | QUANTITY | QUANTITY | QUANTITY | QUANTITY | QUANTITY | QUANTITY |
| ALEWIVES | 3,211 | - | 3,211 | - | - | - |
| BLUE PIKE | 3 | 2 | 5 | - | - | - |
| BOWFIN | 4 | 319 | 323 | - | - | - |
| BUFFALOFISH | 19 | - | 19 | (1) | - | (1) |
| BULLHEADS | 205 | 236 | 441 | 14 | 28 | 42 |
| BURBOT | 18 | 5 | 23 | 396 | 366 | 764 |
| CARP | 8,027 | 839 | 8,866 | - | (1) | (1) |
| CATFISH | 1,869 | 233 | 2,102 | - | - | - |
| CHUBS | 16,516 | 2,454 | 18,970 | - | - | - |
| CISCO | 9 | 3 | 12 | - | - | - |
| CRAPPIE | 3 | - | 3 | - | - | - |
| EELS, COMMON | 30 | 125 | 155 | - | - | - |
| GARFISH | (1) | - | (1) | - | - | - |
| GIZZARD SHAD | 10 | - | 10 | - | - | - |
| GOLDFISH | 293 | - | 293 | - | - | - |
| LAKE HERRING | 11,702 | 1,849 | 13,551 | - | - | - |
| LAKE TROUT | 328 | 53 | 381 | - | 3 | 3 |
| MOONEYE | 2 | - | 2 | (1) | - | (1) |
| PIKE OR PICKEREL | 230 | 147 | 377 | 58 | 290 | 348 |
| QUILLBACK | 8 | - | 8 | (1) | - | (1) |
| ROCK BASS | 18 | 76 | 94 | - | 28 | 28 |
| SAUGER | (1) | 44 | 44 | 95 | 48 | 143 |
| SHEEPSHEAD | 5,798 | 1,183 | 6,981 | - | - | - |
| SMELT | 3,540 | 13,059 | 16,599 | - | - | - |
| STURGEON | 5 | 60 | 65 | - | - | - |
| SUCKERS | 1,441 | 506 | 1,947 | 209 | 315 | 524 |
| SUNFISH | 19 | 177 | 196 | - | - | - |
| TULLIBEE | - | - | - | 2,160 | 233 | 2,393 |
| WHITE BASS | 2,212 | 3,411 | 5,623 | - | - | - |
| WHITEFISH: | | | | | | |
| COMMON | 1,241 | 1,727 | 2,968 | (1) | 63 | 63 |
| MENOMINEE | 68 | 21 | 89 | - | - | - |
| WHITE PERCH | 1 | - | 1 | - | - | - |
| YELLOW PERCH | 9,325 | 18,594 | 27,919 | - | 15 | 41 |
| YELLOW PIKE | 985 | 1,121 | 2,106 | 318 | 1,062 | 1,380 |
| CRAWFISH | (1) | - | (1) | - | - | - |
| TOTAL | 67,140 | 46,244 | 113,384 | 3,276 | 2,451 | 5,729 |

| SPECIES | NAMAKAN LAKE | | | RAINY LAKE | | |
|-----------------------------|---------------|----------|----------|---------------|----------|----------|
| | UNITED STATES | CANADA | TOTAL | UNITED STATES | CANADA | TOTAL |
| | QUANTITY | QUANTITY | QUANTITY | QUANTITY | QUANTITY | QUANTITY |
| BURBOT | 4 | 4 | 8 | 36 | 118 | 154 |
| PIKE OR PICKEREL | - | 1 | 1 | 10 | 114 | 124 |
| ROCK BASS | - | (1) | (1) | - | 3 | 3 |
| SAUGER | - | 2 | 2 | (1) | (1) | (1) |
| STURGEON | - | 2 | 2 | - | 3 | 3 |
| SUCKERS | 4 | 10 | 14 | 41 | 340 | 381 |
| TULLIBEE | 6 | 1 | 7 | 30 | 186 | 216 |
| WHITEFISH, COMMON | 26 | (1) | 25 | 32 | 47 | 79 |
| YELLOW PERCH | - | - | - | (1) | 1 | 1 |
| YELLOW PIKE | - | 3 | 3 | 34 | 165 | 199 |
| TOTAL | 40 | 21 | 61 | 183 | 977 | 1,160 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)



GREAT LAKES FISHERIES

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SUMMARY OF UNITED STATES AND CANADIAN CATCH, 1961 - Continued

(THOUSANDS OF POUNDS)

| SPECIES | TOTAL, INTERNATIONAL LAKES | | | GRAND TOTAL, ALL LAKES | | |
|----------------------------|----------------------------|-----------------|-----------------|------------------------|-----------------|-----------------|
| | UNITED STATES | CANADA | TOTAL | UNITED STATES | CANADA | TOTAL |
| | <u>QUANTITY</u> | <u>QUANTITY</u> | <u>QUANTITY</u> | <u>QUANTITY</u> | <u>QUANTITY</u> | <u>QUANTITY</u> |
| ALEWIVES | - | - | - | 3,211 | - | 3,211 |
| BLUE PIKE | - | - | - | 3 | 2 | 5 |
| BOWFIN | - | - | - | 4 | 319 | 323 |
| BUFFALOFISH | (1) | - | (1) | 19 | - | 19 |
| BULLHEADS | 14 | 28 | 42 | 219 | 264 | 483 |
| BURBOT | 438 | 488 | 926 | 8,027 | 839 | 8,866 |
| CARP | - | (1) | (1) | 1,659 | 233 | 2,102 |
| CATFISH | - | - | - | 16,516 | 2,454 | 18,970 |
| CHUBS | - | - | - | 9 | 3 | 12 |
| CISCO | - | - | - | 3 | - | 3 |
| CRAPPIE | - | - | - | 30 | 125 | 155 |
| EELS, COMMON | - | - | - | (1) | - | (1) |
| GARFISH | - | - | - | 10 | - | 10 |
| GIZZARD SHAD | - | - | - | 293 | - | 293 |
| GOLDFISH | - | - | - | 11,702 | 1,849 | 13,551 |
| LAKE HERRING | - | - | - | 328 | 56 | 384 |
| LAKE TROUT | - | 3 | 3 | 2 | - | 2 |
| MOONEYE | (1) | - | (1) | 298 | 552 | 850 |
| PIKE OR PICKEREL | 68 | 405 | 473 | 8 | - | 8 |
| QUILLBACK | (1) | - | (1) | 31 | 107 | 125 |
| ROCK BASS | - | 31 | 31 | 18 | 92 | 110 |
| SAUGER | 95 | 48 | 143 | 95 | 1,183 | 1,278 |
| SHEEPSHEAD | - | - | - | 5,798 | 13,059 | 18,857 |
| SMLT | - | - | - | 5 | 65 | 70 |
| STURGEON | - | 5 | 5 | 1,695 | 1,171 | 2,866 |
| SUCKERS | 254 | 665 | 919 | 19 | 177 | 196 |
| SUNFISH | - | - | - | 2,196 | 420 | 2,616 |
| TULLIBEE | 2,196 | 420 | 2,616 | 2,212 | 3,411 | 5,623 |
| WHITE BASS | - | - | - | 1,299 | 1,837 | 3,136 |
| WHITFISH | - | - | - | 68 | 21 | 89 |
| COMMON | 58 | 110 | 168 | 1 | - | 1 |
| MENOMINEE | - | - | - | 26 | 16 | 42 |
| WHITE PERCH | - | - | - | 9,351 | 18,610 | 27,961 |
| YELLOW PERCH | 352 | 16 | 42 | 1,337 | 2,351 | 3,688 |
| YELLOW PIKE | 26 | 1,230 | 1,582 | (1) | - | (1) |
| CRAWFISH | - | - | - | - | - | - |
| TOTAL | 3,501 | 3,449 | 6,950 | 70,641 | 49,693 | 120,334 |

1/ LESS THAN 500 POUNDS.

NOTE:--IN CANADA THE CATCHES OF ALEWIVES AND GARFISH HAVE BEEN INCLUDED WITH BOWFIN AND THE CATCH OF CRAPPIES WITH ROCK BASS.



SUMMARY OF UNITED STATES CATCH, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| STATE | TOTAL | |
|------------------------|-----------------|--------------|
| | <u>QUANTITY</u> | <u>VALUE</u> |
| NEW YORK | 897 | 142 |
| PENNSYLVANIA | 1,286 | 147 |
| OHIO | 15,810 | 1,398 |
| MICHIGAN | 24,535 | 2,931 |
| INDIANA | 14 | 2 |
| ILLINOIS | 340 | 54 |
| WISCONSIN | 21,924 | 1,988 |
| MINNESOTA | 5,835 | 309 |
| TOTAL | 70,641 | 6,971 |

GREAT LAKES FISHERIES

SECTIONAL SUMMARIES

SUMMARY OF UNITED STATES OPERATING UNITS BY LAKES, 1961

| ITEM | LAKE ONTARIO | LAKE ERIE | LAKE HURON | LAKE MICHIGAN |
|-----------------------------------|--------------|-----------|------------|---------------|
| | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | |
| ON VESSELS | 4 | 319 | 250 | 532 |
| ON BOATS AND SHORE: | | | | |
| REGULAR | - | 142 | .40 | 66 |
| CASUAL | 73 | 561 | 279 | 769 |
| TOTAL | 77 | 1,022 | 569 | 1,367 |
| VESSELS, MOTOR | 1 | 110 | 82 | 184 |
| GROSS TONNAGE | 10 | 1,425 | 1,393 | 4,075 |
| BOATS: | | | | |
| MOTOR | 36 | 368 | 172 | 362 |
| OTHER | 2 | 159 | 78 | 36 |
| GEAR: | | | | |
| HAUL SEINES, COMMON | 1 | 69 | 23 | 13 |
| LENGTH, YARDS | 230 | 59,070 | 12,530 | 8,040 |
| OTTER TRAWLS, FISH | - | 5 | - | 13 |
| YARDS AT MOUTH | - | 85 | - | 314 |
| POUND NETS | - | 5 | 19 | 243 |
| TRAP NETS | 51 | 1,894 | 574 | 143 |
| FYKE AND HOOP NETS | 48 | 42 | 9 | 95 |
| GILL NETS: | | | | |
| 1-1/4 - 2 INCH MESH | - | - | 1 | 43 |
| SQUARE YARDS | - | - | 100 | 22,600 |
| 2-1/8 - 3-7/8 INCH MESH | 14 | 64 | 199 | 902 |
| SQUARE YARDS | 28,800 | 370,100 | 1,048,100 | 3,334,900 |
| 4 - 7 INCH MESH | 6 | 86 | 39 | 268 |
| SQUARE YARDS | 31,500 | 423,100 | 180,900 | 1,229,600 |
| 7-1/8 - 14 INCH MESH | 3 | 1 | 59 | 28 |
| SQUARE YARDS | 5,400 | 1,000 | 121,400 | 35,800 |
| LINES: | | | | |
| HAND | - | 1 | 2 | 6 |
| HOOKS | - | 2 | 2 | 6 |
| LONG OR SET WITH HOOKS | - | 391 | 101 | 2 |
| HOOKS | - | 69,760 | 43,940 | 735 |
| DIP NETS | - | 6 | - | - |

| ITEM | LAKE SUPERIOR | LAKE OF THE WOODS, NAMAKAN LAKE, AND RAINY LAKE | GRAND TOTAL, EXCLUSIVE OF DUPLICATION, ALL LAKES |
|-----------------------------------|---------------|---|--|
| | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | |
| ON VESSELS | 309 | 6 | 1,347 |
| ON BOATS AND SHORE: | | | |
| REGULAR | 55 | 37 | 325 |
| CASUAL | 378 | 41 | 2,101 |
| TOTAL | 742 | 84 | 3,773 |
| VESSELS, MOTOR | 114 | 2 | 469 |
| GROSS TONNAGE | 1,861 | 49 | 6,309 |
| BOATS: | | | |
| MOTOR | 221 | 38 | 1,197 |
| OTHER | 5 | 3 | 283 |
| GEAR: | | | |
| HAUL SEINES, COMMON | 1 | - | 107 |
| LENGTH, YARDS | 280 | - | 80,150 |
| OTTER TRAWLS, FISH | - | 2 | 19 |
| YARDS AT MOUTH | - | 45 | 420 |
| POUND NETS | 115 | 6 | 368 |
| TRAP NETS | 24 | 26 | 2,653 |
| FYKE AND HOOP NETS | 1 | 11 | 203 |
| GILL NETS: | | | |
| 1-1/4 - 2 INCH MESH | 7 | - | 51 |
| SQUARE YARDS | 5,600 | - | 28,300 |
| 2-1/8 - 3-7/8 INCH MESH | 533 | - | 1,667 |
| SQUARE YARDS | 1,839,900 | - | 6,465,300 |
| 4 - 7 INCH MESH | 287 | 178 | 856 |
| SQUARE YARDS | 2,156,400 | 97,600 | 4,077,300 |
| 7-1/8 - 14 INCH MESH | - | - | 91 |
| SQUARE YARDS | - | - | 163,600 |
| LINES: | | | |
| HAND | - | - | 9 |
| HOOKS | - | - | 10 |
| TROLL | 62 | - | 62 |
| HOOKS | 62 | - | 62 |
| LONG OR SET WITH HOOKS | - | - | 494 |
| HOOKS | - | - | 114,435 |
| DIP NETS | - | - | 6 |

GREAT LAKES FISHERIES

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SUMMARY OF OPERATING UNITS BY STATES AND LAKES, 1961

| ITEM | NEW YORK | | | PENNSYLVANIA | OHIO |
|-----------------------------------|-----------------|---------------|---------------------------------------|------------------|---------------------------------------|
| | LAKE ONTARIO | LAKE ERIE | TOTAL, EXCLUSIVE OF DUPLICATION | LAKE ERIE | LAKE ERIE |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | |
| ON VESSELS | 4 | 20 | 24 | 44 | 252 |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | - | - | - | 1 | 124 |
| CASUAL | 73 | 8 | 81 | 8 | 493 |
| TOTAL | 77 | 28 | 105 | 53 | 869 |
| VESSELS, MOTOR | 1 | 5 | 6 | 12 | 91 |
| GROSS TONNAGE | 10 | 63 | 73 | 159 | 1,195 |
| BOATS: | | | | | |
| MOTOR | 36 | 4 | 40 | 5 | 335 |
| OTHER | 2 | - | 2 | 1 | 136 |
| GEAR: | | | | | |
| HAUL SEINES, COMMON | 1 | - | 1 | - | 57 |
| LENGTH, YARDS | 230 | - | 230 | - | 50,760 |
| OTTER TRAWLS, FISH. | - | - | - | 2 | 3 |
| YARDS AT MOUTH | - | - | - | 40 | 45 |
| POUND NETS | - | - | - | 5 | - |
| TRAP NETS | 51 | - | 51 | - | 1,736 |
| FYKE AND HOOP NETS | 48 | - | 48 | - | 24 |
| GILL NETS: | | | | | |
| 2-1/8 - 3-7/8 INCH MESH | 14 | 11 | 25 | 16 | 42 |
| SQUARE YARDS | 26,800 | 61,200 | 90,000 | 147,300 | 205,900 |
| 4 - 7 INCH MESH | 6 | 12 | 18 | 7 | 67 |
| SQUARE YARDS | 31,500 | 93,900 | 125,400 | 97,300 | 254,000 |
| 7-1/8 - 14 INCH MESH | 3 | 1 | 4 | - | - |
| SQUARE YARDS | 5,400 | 1,000 | 6,400 | - | - |
| LINES, LONG OR SET WITH HOOKS | - | - | - | - | 390 |
| HOOKS | - | - | - | - | 69,710 |
| DIP NETS | - | - | - | - | 6 |
| | | | | | |
| | | | MICHIGAN | | |
| ITEM | LAKE ERIE | LAKE HURON | LAKE MICHIGAN | LAKE SUPERIOR | TOTAL, EXCLUSIVE OF DUPLICATION |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | |
| ON VESSELS | 24 | 250 | 270 | 200 | 693 |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | 17 | 40 | 37 | 22 | 116 |
| CASUAL | 52 | 279 | 401 | 238 | 970 |
| TOTAL | 93 | 569 | 708 | 460 | 1,779 |
| VESSELS, MOTOR | 8 | 82 | 87 | 70 | 231 |
| GROSS TONNAGE | 84 | 1,393 | 1,861 | 1,178 | 4,192 |
| BOATS: | | | | | |
| MOTOR | 24 | 172 | 201 | 117 | 514 |
| OTHER | 22 | 78 | 17 | 5 | 122 |
| GEAR: | | | | | |
| HAUL SEINES, COMMON | 12 | 23 | 1 | 1 | 37 |
| LENGTH, YARDS | 8,310 | 12,530 | 460 | 280 | 21,580 |
| OTTER TRAWLS, FISH. | - | - | 4 | - | 4 |
| YARDS AT MOUTH | - | - | 93 | - | 93 |
| POUND NETS | - | 19 | 166 | 44 | 229 |
| TRAP NETS | 170 | 574 | 141 | 24 | 871 |
| FYKE AND HOOP NETS | 18 | 6 | 5 | 1 | 30 |
| GILL NETS: | | | | | |
| 1-1/4 - 2 INCH MESH | - | 1 | 38 | 3 | 42 |
| SQUARE YARDS | - | 100 | 13,000 | 600 | 13,700 |
| 2-1/8 - 3-7/8 INCH MESH | - | 199 | 398 | 360 | 941 |
| SQUARE YARDS | - | 1,048,100 | 1,545,200 | 1,227,700 | 372,800 |
| 4 - 7 INCH MESH | 4 | 39 | 157 | 178 | 370 |
| SQUARE YARDS | 4,800 | 180,900 | 755,500 | 1,488,100 | 2,388,500 |
| 7-1/8 - 14 INCH MESH | - | 59 | - | - | 59 |
| SQUARE YARDS | - | 121,400 | - | - | 121,400 |
| LINES: | | | | | |
| HAND | 1 | 2 | 6 | - | 9 |
| HOOKS | - | 2 | 6 | - | 10 |
| TROLL | - | - | - | 62 | 62 |
| HOOKS | - | - | - | 62 | 62 |
| LONG OR SET WITH HOOKS | 1 | 101 | 2 | - | 104 |
| HOOKS | 50 | 43,940 | 735 | - | 44,725 |

(CONTINUED ON NEXT PAGE)

GREAT LAKES FISHERIES

SUMMARY OF OPERATING UNITS BY STATES AND LAKES, 1961 - Continued

| | INDIANA | ILLINOIS | WISCONSIN | | |
|-----------------------------------|---------------|---------------|---|---------------|---------------------------------------|
| | LAKE MICHIGAN | LAKE MICHIGAN | LAKE MICHIGAN | LAKE SUPERIOR | TOTAL, EXCLUSIVE OF DUPLICATION |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | |
| ON VESSELS | - | 13 | 272 | 104 | 373 |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | - | - | 29 | 1 | 30 |
| CASUAL | 7 | 2 | 359 | 36 | 395 |
| TOTAL | 7 | 15 | 660 | 141 | 798 |
| VESSLS, MOTOR | - | 4 | 101 | 42 | 142 |
| GROSS TONNAGE | - | 116 | 2,259 | 671 | 2,896 |
| BOATS: | | | | | |
| MOTOR | 6 | 1 | 154 | 15 | 169 |
| OTHER | - | - | 19 | - | 19 |
| GEAR: | | | | | |
| HAUL SEINES, COMMON | - | - | 12 | - | 12 |
| LENGTH, YARDS | - | - | 7,580 | - | 7,580 |
| OTTER TRAWLS, FISH | - | - | 9 | - | 9 |
| YARDS AT MOUTH | - | - | 221 | - | 221 |
| POUND NETS | - | - | 77 | 51 | 128 |
| TRAP NETS | - | - | 2 | - | 2 |
| FYKE AND HOOP NETS | - | - | 90 | - | 90 |
| GILL NETS: | | | | | |
| 1-1/4 - 2 INCH MESH | - | - | 7 | 4 | 11 |
| SQUARE YARDS | - | - | 9,600 | 5,000 | 14,600 |
| 2-1/8 - 3-7/8 INCH MESH | - | - | 500 | 80 | 576 |
| SQUARE YARDS | 6 | 15 | 1,806,000 | 404,000 | 2,198,000 |
| 4 - 7 INCH MESH | 1,700 | 99,900 | 114 | 107 | 221 |
| SQUARE YARDS | - | - | 498,200 | 660,000 | 1,178,200 |
| 7-1/8 - 14 INCH MESH | - | - | 28 | - | 28 |
| SQUARE YARDS | - | - | 35,800 | - | 35,800 |
| | | | MINNESOTA | | |
| | | | LAKE OF THE WOODS, NAMAKAN LAKE, AND RAINY LAKE | | TOTAL, EXCLUSIVE OF DUPLICATION |
| | | | NUMBER | | NUMBER |
| FISHERMEN: | | | | | |
| ON VESSELS | 13 | | 6 | | 19 |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | 17 | | 37 | | 54 |
| CASUAL | 104 | | 41 | | 145 |
| TOTAL | 134 | | 64 | | 218 |
| VESSLS, MOTOR | 5 | | 2 | | 7 |
| GROSS TONNAGE | 74 | | 49 | | 123 |
| BOATS: | | | | | |
| MOTOR | 89 | | 38 | | 127 |
| OTHER | - | | 3 | | 3 |
| GEAR: | | | | | |
| OTTER TRAWLS, FISH | - | | 2 | | 2 |
| YARDS AT MOUTH | - | | 45 | | 45 |
| POUND NETS | 20 | | 6 | | 26 |
| TRAP NETS | - | | 26 | | 26 |
| FYKE AND HOOP NETS | - | | 11 | | 11 |
| GILL NETS: | | | | | |
| 2-1/8 - 3-7/8 INCH MESH | 97 | | - | | 97 |
| SQUARE YARDS | 231,600 | | - | | 231,600 |
| 4 - 7 INCH MESH | 4 | | 178 | | 182 |
| SQUARE YARDS | 9,300 | | 97,600 | | 106,900 |



GREAT LAKES FISHERIES

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CATCH BY STATES, 1961

| SPECIES | NEW YORK | | PENNSYLVANIA | | OHIO | |
|----------------------------|----------|---------|--------------|---------|------------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BLUE PIKE | 600 | \$205 | 200 | \$39 | 2,000 | \$695 |
| BOWFIN | 2,200 | 43 | - | - | - | - |
| BUFFALOFISH | - | - | (1) | (1) | 18,000 | 2,338 |
| BULLHEADS | 71,000 | 19,852 | 100 | 17 | 79,600 | 12,741 |
| BURBOT | 1,000 | 65 | 1,300 | 38 | 6,200 | 124 |
| CARP | 49,300 | 966 | 2,700 | 55 | 3,397,500 | 135,900 |
| CATFISH | 3,900 | 707 | 1,300 | 232 | 1,538,400 | 338,448 |
| CHUBS | (1) | 4 | - | - | - | - |
| CISCO | 4,800 | 1,714 | 1,300 | 391 | 2,500 | 1,002 |
| CRAPPIE | 300 | 35 | - | - | - | - |
| EELS | 30,300 | 4,550 | - | - | - | - |
| GARFISH | (1) | (1) | - | - | - | - |
| GIZZARD SHAD | - | - | - | - | 8,000 | 60 |
| GOLDFISH | - | - | - | - | 293,000 | 8,788 |
| LAKE TROUT | 5,100 | 2,794 | (1) | 5 | - | - |
| MOONEYE | - | - | - | - | 1,600 | 24 |
| ROCK BASS | 9,200 | 647 | - | - | - | - |
| SAUGER | - | - | - | - | 100 | 17 |
| SHEEPSHEAD | 12,400 | 372 | 25,700 | 483 | 5,631,800 | 112,635 |
| SMELT | 900 | 99 | 900 | 31 | 14,700 | 1,968 |
| STURGEON | 2,200 | 2,333 | (1) | 32 | 200 | 175 |
| SUCKERS | 28,200 | 566 | 3,800 | 130 | 254,100 | 10,166 |
| SUNFISH | 19,100 | 2,101 | - | - | - | - |
| WHITE BASS | 30,400 | 3,123 | 105,200 | 9,819 | 1,905,400 | 285,605 |
| WHITFISH, COMMON | 59,600 | 23,365 | 1,900 | 1,121 | 3,600 | 2,862 |
| WHITE PERCH | 700 | 53 | - | - | - | - |
| YELLOW PERCH | 480,600 | 52,074 | 1,119,000 | 128,222 | 2,059,900 | 247,192 |
| YELLOW PIKE | 85,200 | 26,523 | 22,200 | 6,226 | 593,400 | 237,363 |
| TOTAL | 897,000 | 142,211 | 1,285,600 | 146,841 | 15,810,000 | 1,396,323 |

| SPECIES | MICHIGAN | | INDIANA | | ILLINOIS | |
|-------------------------------|------------|-----------|---------|-------|----------|----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | 1,094,200 | \$14,355 | 3,700 | \$47 | - | - |
| BOWFIN | 1,200 | 32 | - | - | - | - |
| BUFFALOFISH | 800 | 104 | - | - | - | - |
| BULLHEADS | 21,700 | 2,728 | - | - | - | - |
| BURBOT | 500 | 31 | - | - | - | - |
| CARP | 2,775,500 | 105,578 | 100 | 2 | - | - |
| CATFISH | 325,400 | 82,179 | - | - | - | - |
| CHUBS | 6,493,700 | 1,085,783 | - | - | 165,100 | \$28,231 |
| CRAPPIE | 2,900 | 713 | - | - | - | - |
| GARFISH | (1) | (1) | - | - | - | - |
| GIZZARD SHAD | 1,500 | 30 | - | - | - | - |
| LAKE HERRING | 7,458,800 | 434,312 | - | - | - | - |
| LAKE TROUT | 218,500 | 126,497 | (1) | 7 | 400 | 24 |
| PIKE OR PICKEREL | 187,600 | 32,509 | - | 5 | - | - |
| QUILBACK | 8,500 | 282 | - | - | - | - |
| ROCK BASS | 9,100 | 1,342 | - | - | - | - |
| SAUGER | 200 | 41 | - | - | - | - |
| SHEEPSHEAD | 126,600 | 3,767 | - | - | - | - |
| SMELT | 1,398,500 | 46,232 | 200 | 8 | - | - |
| STURGEON | 2,500 | 2,445 | - | - | - | - |
| SUCKERS | 761,000 | 32,774 | 1,500 | 79 | - | - |
| WHITE BASS | 171,200 | 13,097 | - | - | - | - |
| WHITFISH: COMMON | 938,900 | 467,644 | - | - | - | - |
| MENOMINEE | 32,500 | 6,538 | - | - | - | - |
| YELLOW PERCH | 2,233,900 | 333,811 | 8,000 | 1,198 | 175,000 | 26,075 |
| YELLOW PIKE | 269,800 | 117,651 | - | - | - | - |
| TOTAL | 24,535,000 | 2,930,475 | 13,600 | 1,346 | 340,500 | 54,330 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GREAT LAKES FISHERIES

CATCH BY STATES, 1961 - Continued

| SPECIES | WISCONSIN | | MINNESOTA | | TOTAL | |
|----------------------------|--------------|-------------|-------------|----------|--------------|-------------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | 2, 113, 200 | \$27, 470 | - | - | 3, 211, 100 | \$41, 872 |
| BLUE PIKE | - | - | - | - | 2, 800 | 939 |
| BOWFIN | 200 | 5 | - | - | 3, 600 | 80 |
| BUFFALOFISH | - | - | 300 | \$18 | 19, 100 | 2, 450 |
| BULLHEADS | 32, 000 | 3, 195 | 14, 400 | 1, 098 | 218, 800 | 39, 631 |
| BURBOT | 10, 000 | 505 | 437, 200 | 13, 126 | 456, 200 | 13, 889 |
| CARP | 1, 801, 400 | 54, 042 | - | - | 8, 026, 500 | 296, 563 |
| CATFISH | 100 | 18 | - | - | 1, 869, 100 | 421, 584 |
| CHUBS | 9, 752, 800 | 1, 001, 122 | 104, 400 | 12, 500 | 16, 516, 000 | 2, 127, 640 |
| CISCO | - | - | - | - | 8, 600 | 3, 107 |
| CRAPPIE | - | - | - | - | 3, 200 | 748 |
| EELS | - | - | - | - | 30, 300 | 4, 550 |
| GARFISH | - | - | - | - | (1) | (1) |
| GIZZARD SHAD | - | - | - | - | 9, 500 | 110 |
| GOLDFISH | - | - | - | - | 293, 000 | 8, 788 |
| LAKE HERRING | 2, 662, 200 | 139, 533 | 1, 580, 000 | 79, 000 | 11, 701, 500 | 652, 876 |
| LAKE TROUT | 102, 600 | 68, 732 | 1, 800 | 640 | 326, 000 | 196, 673 |
| MOONEYE | - | - | (1) | 1 | 1, 600 | 25 |
| PIKE OR PICKEREL | 42, 600 | 6, 383 | 68, 100 | 5, 389 | 298, 300 | 44, 281 |
| QUILLBACK | - | - | 100 | 3 | 8, 600 | 285 |
| ROCK BASS | - | - | - | - | 18, 300 | 1, 989 |
| SAUGER | - | - | 95, 100 | 9, 417 | 95, 400 | 9, 475 |
| SHEEPSHEAD | 1, 800 | 74 | - | - | 5, 798, 300 | 117, 331 |
| SMELT | 1, 480, 000 | 53, 515 | 644, 600 | 32, 000 | 3, 539, 800 | 133, 853 |
| STURGEON | - | - | - | - | 4, 900 | 4, 985 |
| SUCKERS | 392, 700 | 19, 638 | 253, 500 | 5, 545 | 1, 694, 800 | 68, 898 |
| SUNFISH | - | - | - | - | 19, 100 | 2, 101 |
| TULLIBEE | - | - | 2, 196, 200 | 63, 895 | 2, 196, 200 | 63, 895 |
| WHITE BASS | (1) | 1 | - | - | 2, 212, 200 | 311, 845 |
| WHITEFISH: | | | | | | |
| COMMON | 236, 800 | 146, 836 | 58, 600 | 16, 555 | 1, 299, 400 | 678, 383 |
| MEMONIEE | 33, 500 | 7, 376 | 2, 500 | 250 | 68, 500 | 14, 164 |
| WHITE PERCH | - | - | - | - | 700 | 53 |
| YELLOW PERCH | 3, 248, 600 | 454, 799 | 25, 700 | 2, 459 | 9, 350, 700 | 1, 245, 830 |
| YELLOW PIKE | 14, 100 | 5, 059 | 352, 100 | 67, 171 | 1, 336, 800 | 459, 993 |
| CRAWFISH | (1) | (1) | - | - | (1) | (1) |
| TOTAL | 21, 924, 600 | 1, 968, 303 | 5, 834, 600 | 309, 067 | 70, 640, 900 | 6, 970, 896 |

1/ LESS THAN 50 POUNDS OR 50 CENTS.

NOTE:--THE MICHIGAN CATCH DOES NOT INCLUDE 37,200 POUNDS OF CARP VALUED AT \$1,487 TAKEN FROM LAKE ST. CLAIR UNDER THE MICHIGAN DEPARTMENT OF CONSERVATION'S ROUGH FISH REMOVAL PROGRAM, NOR 46,200 POUNDS OF CARP VALUED AT \$2,684 REMOVED FROM INLAND STREAMS.



CATCH BY LAKES AND STATES, 1961

| SPECIES | LAKE ONTARIO | | LAKE ERIE | | | |
|-----------------------|--------------|---------|-----------|-------|--------------|-------|
| | NEW YORK | | NEW YORK | | PENNSYLVANIA | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BLUE PIKE | 500 | \$188 | 100 | \$17 | 200 | \$39 |
| BOWFIN | 2, 200 | 43 | - | - | - | - |
| BUFFALOFISH | - | - | - | - | (1) | (1) |
| BULLHEADS | 71, 000 | 19, 852 | - | - | 100 | 17 |
| BURBOT | 1, 000 | 62 | (1) | 3 | 1, 300 | 38 |
| CARP | 49, 100 | 962 | 200 | 4 | 2, 700 | 55 |
| CATFISH | 3, 000 | 497 | 900 | 210 | 1, 300 | 232 |
| CHUBS | (1) | 4 | - | - | - | - |
| CISCO | 2, 500 | 784 | 2, 300 | 930 | 1, 300 | 391 |
| CRAPPIE | 300 | 35 | - | - | - | - |
| EELS | 30, 300 | 4, 550 | - | - | - | - |
| GARFISH | (1) | (1) | - | - | - | - |
| LAKE TROUT | 5, 100 | 2, 794 | - | - | (1) | 5 |
| ROCK BASS | 9, 200 | 647 | - | - | - | - |
| SHEEPSHEAD | (1) | 1 | 12, 400 | 371 | 25, 700 | 483 |
| SMELT | 200 | 41 | 700 | 58 | 900 | 31 |
| STURGEON | 2, 000 | 2, 135 | 200 | 198 | (1) | 32 |
| SUCKERS | 16, 700 | 375 | 9, 500 | 191 | 3, 800 | 130 |
| SUNFISH | 19, 100 | 2, 101 | - | - | - | - |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GREAT LAKES FISHERIES

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CATCH BY LAKES AND STATES, 1961 - Continued

| SPECIES | LAKE ONTARIO | | LAKE ERIE | | | |
|-------------------------------|--------------|--------|-----------|---------|--------------|---------|
| | NEW YORK | | NEW YORK | | PENNSYLVANIA | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| WHITE BASS | 7,900 | \$873 | 22,500 | \$2,250 | 105,200 | \$9,819 |
| WHITE PERCH, COMMON | 59,200 | 23,062 | 400 | 283 | 1,900 | 1,121 |
| WHITE PERCH | - | 53 | - | - | - | - |
| YELLOW PERCH | 68,200 | 6,710 | 412,400 | 45,364 | 1,119,000 | 128,222 |
| YELLOW PIKE | 1,000 | 417 | 64,200 | 26,106 | 22,200 | 6,226 |
| TOTAL | 135,300 | 31,062 | 545,800 | 75,985 | 1,285,600 | 146,841 |

| SPECIES | LAKE ERIE - CONTINUED | | | | | |
|-------------------------------|-----------------------|-----------|-----------|---------|------------|-----------|
| | OHIO | | MICHIGAN | | TOTAL | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BLUE PIKE | 2,000 | \$695 | - | - | 2,300 | \$751 |
| BOWFIN | - | - | (1) | (1) | (1) | (1) |
| BUFFALOFISH | 18,000 | 2,338 | 600 | \$104 | 18,600 | 2,442 |
| BULLHEADS | 79,600 | 12,741 | 9,000 | 1,438 | 88,700 | 14,196 |
| BURBOT | 6,200 | 124 | - | - | 7,500 | 165 |
| CARP | 3,397,500 | 135,900 | 1,297,600 | 44,126 | 4,698,200 | 180,085 |
| CATFISH | 1,536,400 | 339,448 | 85,600 | 22,245 | 1,625,200 | 361,135 |
| CISCO | 2,500 | 1,002 | - | - | 6,100 | 2,323 |
| GIZZARD SHAD | 8,000 | 80 | 1,500 | 30 | 9,500 | 110 |
| GOLDFISH | 293,000 | 8,788 | - | - | 293,000 | 8,788 |
| LAKE TROUT | - | - | - | - | (1) | 5 |
| MOONEYE | 1,600 | 24 | - | - | 1,600 | 24 |
| PIKE OR PICKEREL | - | - | 1,200 | 166 | 1,200 | 166 |
| ROCK BASS | - | - | 600 | 163 | 600 | 163 |
| SAUGER | 100 | 17 | - | - | 100 | 17 |
| SHEEPSHEAD | 5,631,800 | 112,635 | 94,500 | 2,835 | 5,764,400 | 116,324 |
| SMELT | 14,700 | 1,968 | (1) | 1 | 16,300 | 2,058 |
| STURGEON | 200 | 175 | (1) | 34 | 500 | 439 |
| SUCKERS | 254,100 | 10,166 | 62,300 | 1,557 | 329,700 | 12,044 |
| WHITE BASS | 1,905,400 | 285,805 | 159,300 | 11,951 | 2,192,400 | 309,825 |
| WHITE PERCH, COMMON | 3,600 | 2,862 | - | - | 5,900 | 4,266 |
| YELLOW PERCH | 2,059,900 | 247,192 | 103,600 | 15,541 | 3,694,900 | 436,319 |
| YELLOW PIKE | 593,400 | 237,363 | 105,100 | 45,191 | 804,900 | 314,886 |
| TOTAL | 15,810,000 | 1,396,323 | 1,921,400 | 145,382 | 19,562,800 | 1,766,531 |

| SPECIES | LAKE HURON | | LAKE MICHIGAN | | | |
|-------------------------------|------------|-----------|---------------|----------|---------|-------|
| | MICHIGAN | | MICHIGAN | | INDIANA | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | 12,000 | \$287 | 1,082,100 | \$14,067 | 3,700 | \$47 |
| BOWFIN | 1,200 | 32 | - | - | - | - |
| BULLHEADS | 11,900 | 1,246 | 800 | 44 | - | - |
| BURBOT | (1) | 1 | (1) | (1) | - | - |
| CARP | 1,437,100 | 60,356 | 40,600 | 1,096 | 100 | 2 |
| CATFISH | 239,600 | 59,895 | 200 | 39 | - | - |
| CHUBS | 3,196,800 | 626,581 | 2,689,300 | 394,794 | - | - |
| CRAPPIE | 2,900 | 713 | (1) | (1) | - | - |
| GARFISH | - | - | (1) | (1) | - | - |
| LAKE HERRING | 68,000 | 7,480 | 84,500 | 10,375 | 100 | 7 |
| LAKE TROUT | 177,700 | 31,451 | 100 | 45 | (1) | 5 |
| PIKE OR PICKEREL | 8,500 | 282 | 8,400 | 855 | - | - |
| QUILLBACK | 8,300 | 1,162 | 200 | 17 | - | - |
| ROCK BASS | 100 | 18 | (1) | 10 | - | - |
| SAUGER | 32,000 | 926 | 100 | 6 | - | - |
| SHEEPSHEAD | 31,400 | 1,476 | 1,240,500 | 39,693 | 200 | 8 |
| SMELT | 800 | 799 | 1,500 | 1,518 | - | - |
| STURGEON | 551,600 | 23,165 | 124,900 | 6,497 | 1,500 | 79 |
| SUCKERS | 11,900 | 1,146 | - | - | - | - |
| WHITE BASS | 438,100 | 236,991 | 252,100 | 126,289 | - | - |
| WHITE PERCH, COMMON | 9,300 | 1,858 | 8,300 | 2,479 | - | - |
| YELLOW PERCH | 598,000 | 99,260 | 1,527,500 | 218,340 | 8,000 | 1,198 |
| YELLOW PIKE | 80,800 | 37,647 | 82,800 | 34,426 | - | - |
| TOTAL | 6,916,000 | 1,192,772 | 7,343,900 | 850,590 | 13,600 | 1,346 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GREAT LAKES FISHERIES

CATCH BY LAKES AND STATES, 1961 - Continued

| SPECIES | LAKE MICHIGAN - CONTINUED | | | | | |
|----------------------------|---------------------------|----------|-------------|-----------|------------|-----------|
| | ILLINOIS | | WISCONSIN | | TOTAL | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | - | - | 2,113,200 | \$27,470 | 3,199,000 | \$41,584 |
| BOWFIN | - | - | 200 | 5 | 200 | 5 |
| BULLHEADS | - | - | 32,000 | 3,195 | 32,800 | 3,239 |
| BURBOT | - | - | 5,500 | 278 | 5,500 | 278 |
| CARP | - | - | 1,601,300 | 54,039 | 1,642,000 | 55,137 |
| CATFISH | - | - | 100 | 18 | 300 | 57 |
| CHUBS | 165,100 | \$28,231 | 9,078,700 | 883,147 | 12,133,100 | 1,306,172 |
| GARFISH | - | - | - | - | (1) | (1) |
| LAKE HERRING | 400 | 24 | 11,800 | 11,014 | 176,800 | 21,420 |
| LAKE TROUT | - | - | (1) | 11 | 100 | 61 |
| PIKE OR PICKEREL | - | - | 42,600 | 6,362 | 51,000 | 7,237 |
| ROCK BASS | - | - | - | - | 200 | 17 |
| SAUGER | - | - | - | - | (1) | 10 |
| SHEEPSHEAD | - | - | 1,800 | 74 | 1,900 | 80 |
| SMELT | - | - | 911,500 | 36,459 | 2,152,200 | 76,160 |
| STURGEON | - | - | - | - | 1,500 | 1,518 |
| SUCKERS | - | - | 368,100 | 18,407 | 494,500 | 24,983 |
| WHITE BASS | - | - | (1) | 1 | (1) | 1 |
| WHITEFISH: | | | | | | |
| COMMON | - | - | 143,400 | 88,930 | 395,500 | 215,219 |
| MEMMINEE | - | - | 8,600 | 1,699 | 16,900 | 4,378 |
| YELLOW PERCH | 175,000 | 26,075 | 3,248,400 | 454,771 | 4,958,900 | 700,384 |
| YELLOW PIKE | - | - | 14,100 | 5,059 | 96,900 | 39,485 |
| CRAWFISH | - | - | (1) | (1) | (1) | (1) |
| TOTAL | 340,500' | 54,330' | 17,861,300' | 1,591,159 | 25,559,300 | 2,497,425 |

| SPECIES | LAKE SUPERIOR | | | | | | | |
|----------------------------|---------------|---------|------------|----------|------------|----------|-------------|-----------|
| | MICHIGAN | | WISCONSIN | | MINNESOTA | | TOTAL | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | 100 | \$1 | (1) | (1) | - | - | 100 | \$1 |
| BURBOT | 500 | 30 | 4,500 | \$227 | - | - | 5,000 | 257 |
| CARP | - | - | 100 | 3 | - | - | 100 | 3 |
| CHUBS | 407,600 | 64,408 | 674,100 | 117,975 | 104,400 | \$12,500 | 1,186,100 | 194,883 |
| LAKE HERRING | 7,306,300 | 416,457 | 2,570,400 | 128,519 | 1,580,000 | 79,000 | 11,456,700 | 623,976 |
| LAKE TROUT | 218,400 | 126,452 | 102,600 | 68,721 | 1,800 | 640 | 322,800 | 195,813 |
| PIKE OR PICKEREL | 300 | 37 | (1) | 1 | - | - | 300 | 38 |
| SAUGER | 100 | 13 | - | - | - | - | 100 | 13 |
| SMELT | 126,600 | 5,062 | 568,500 | 17,056 | 644,600 | 32,000 | 1,339,700 | 54,118 |
| STURGEON | 100 | 94 | - | - | - | - | 100 | 94 |
| SUCKERS | 22,200 | 1,555 | 24,600 | 1,231 | - | - | 46,800 | 2,786 |
| WHITEFISH: | | | | | | | | |
| COMMON | 248,700 | 124,364 | 93,400 | 57,906 | 500 | 250 | 342,600 | 182,520 |
| MEMMINEE | 14,900 | 2,201 | 24,900 | 5,477 | 2,500 | 250 | 42,300 | 7,928 |
| YELLOW PERCH | 4,800 | 670 | 200 | 28 | - | - | 5,000 | 698 |
| YELLOW PIKE | 1,100 | 387 | - | - | - | - | 1,100 | 387 |
| TOTAL | 8,351,700' | 741,731 | 4,063,300' | 397,144' | 2,333,800' | 124,640' | 14,748,800' | 1,263,515 |

| SPECIES | LAKE OF THE WOODS | | | | | | NAMAKAN LAKE | | RAINY LAKE | | TOTAL, ALL LAKES | |
|----------------------------|-------------------|--------|-----------|-------|-----------|---------|--------------|-------|------------|-------|------------------|-----------|
| | MINNESOTA | | MINNESOTA | | MINNESOTA | | MINNESOTA | | MINNESOTA | | TOTAL | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | - | - | - | - | - | - | - | - | - | - | 3,211,100 | \$41,872 |
| BLUE PIKE | - | - | - | - | - | - | - | - | - | - | 2,800 | 939 |
| BOWFIN | - | - | - | - | - | - | - | - | - | - | 3,600 | 80 |
| BUFFALO FISH | - | - | - | - | - | - | - | - | - | - | 19,100 | 2,460 |
| BULLHEADS | 300 | \$18 | - | - | - | - | - | - | - | - | 218,600 | 39,631 |
| BURBOT | 14,400 | 1,098 | - | - | - | - | - | - | - | - | 456,200 | 13,889 |
| CARP | 397,500 | 11,926 | 3,900 | \$100 | 35,800 | \$1,100 | - | - | - | - | 8,026,500 | 296,563 |
| CATFISH | - | - | - | - | - | - | - | - | - | - | 1,869,100 | 421,584 |
| CHUBS | - | - | - | - | - | - | - | - | - | - | 16,516,000 | 2,127,640 |
| CISCO | - | - | - | - | - | - | - | - | - | - | 8,600 | 3,107 |
| CRAPPIE | - | - | - | - | - | - | - | - | - | - | 3,200 | 748 |
| EELS | - | - | - | - | - | - | - | - | - | - | 30,300 | 4,530 |
| GARFISH | - | - | - | - | - | - | - | - | - | - | (1) | (1) |
| GIZZARD SHAD | - | - | - | - | - | - | - | - | - | - | 9,500 | 110 |
| GOLDFISH | - | - | - | - | - | - | - | - | - | - | 293,000 | 8,788 |
| LAKE HERRING | - | - | - | - | - | - | - | - | - | - | 11,701,500 | 652,676 |
| LAKE TROUT | - | - | - | - | - | - | - | - | - | - | 328,000 | 198,673 |
| MOONEYE | (1) | 1 | - | - | - | - | - | - | - | - | 1,600 | 25 |
| PIKE OR PICKEREL | 58,100 | 4,589 | - | - | 10,000 | 800 | - | - | - | - | 298,300 | 44,281 |
| QUILLBACK | 100 | 3 | - | - | - | - | - | - | - | - | 8,600 | 265 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GREAT LAKES FISHERIES

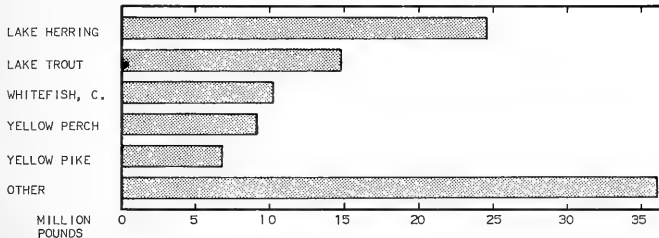
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CATCH BY LAKES AND STATES, 1961 - Continued

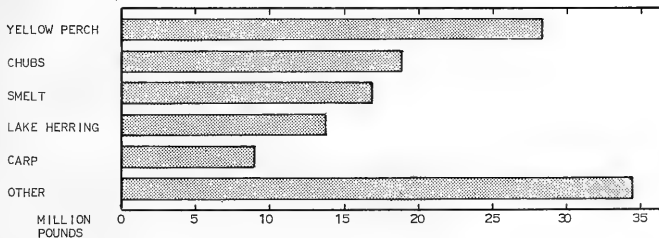
| SPECIES | LAKE OF THE WOODS | | NAMAKAN LAKE | | RAINY LAKE | | TOTAL, ALL LAKES | |
|------------------------|-------------------|---------|--------------|-------|------------|---------|---------------------|-----------|
| | MINNESOTA | | MINNESOTA | | MINNESOTA | | POUNDS | VALUE |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ROCK BASS | - | - | - | - | - | - | 18,300 | \$1,989 |
| SAUGER | 95,100 | \$9,417 | - | - | (1) | (1) | 95,400 | 9,475 |
| SHEEPSHEAD | - | - | - | - | - | - | 5,798,300 | 117,331 |
| SMELT | - | - | - | - | - | - | 3,539,800 | 133,853 |
| STURGEON | - | - | - | - | - | - | 4,900 | 4,985 |
| SUCKERS | 208,700 | 4,245 | 3,700 | \$100 | 41,100 | \$1,200 | 1,694,800 | 68,898 |
| SUNFISH | - | - | - | - | - | - | 19,100 | 2,101 |
| TULLIBEE | 2,160,300 | 63,195 | 6,100 | 100 | 29,800 | 600 | 2,195,200 | 63,895 |
| WHITE BASS | - | - | - | - | - | - | 2,212,200 | 311,845 |
| WHITEFISH: | | | | | | | | |
| COMMON | (1) | 5 | 26,000 | 7,300 | 32,100 | 9,000 | 1,299,400 | 678,383 |
| MENOMINEE | - | - | - | - | - | - | 68,500 | 14,164 |
| WHITE PERCH | - | - | - | - | - | - | 700 | 53 |
| YELLOW PERCH | 25,600 | 2,449 | - | - | 100 | 10 | 9,350,700 | 1,245,830 |
| YELLOW PIKE | 318,300 | 56,971 | - | - | 33,800 | 10,200 | 1,336,800 | 459,993 |
| CRAWFISH | - | - | - | - | - | - | (1) | (1) |
| TOTAL | 3,278,400 | 153,917 | 39,700 | 7,600 | 182,700 | 22,910 | 70,640,900 | 6,970,896 |

1/ LESS THAN 50 POUNDS OR 50 CENTS.

UNITED STATES AND CANADIAN CATCH, 1941



UNITED STATES AND CANADIAN CATCH, 1961



GREAT LAKES FISHERIES

MANUFACTURED FISHERY PRODUCTS, 1961

| ITEM | | NEW YORK | | PENNSYLVANIA | |
|--------------------------------------|----------------|------------|-----------|--------------|-----------|
| | | QUANTITY | VALUE | QUANTITY | VALUE |
| CHUBS, SMOKED | POUNDS | {1} | {1} | - | - |
| HERRING, SEA, SALTED | DO | {1} | {1} | - | - |
| LAKE TROUT, FILLETS: | | | | | |
| FRESH | DO | {1} | {1} | - | - |
| FROZEN | DO | {1} | {1} | - | - |
| SABLEFISH, SMOKED | DO | {1} | {1} | - | - |
| SALMON, SMOKED | DO | {1} | {1} | - | - |
| SAUGER FILLETS: | | | | | |
| FRESH | DO | {1} | {1} | - | - |
| FROZEN | DO | {1} | {1} | - | - |
| WHITE BASS, FRESH AND FROZEN FILLETS | DO | 4,500 | \$1,650 | 4,000 | \$1,250 |
| WHITEFISH: | | | | | |
| FILLETS: | | | | | |
| FRESH | DO | {1} | {1} | {1} | {1} |
| FROZEN | DO | {1} | {1} | {1} | {1} |
| SMOKED | DO | {1} | {1} | - | - |
| YELLOW PERCH FILLETS: | | | | | |
| FRESH | DO | 49,000 | 18,120 | 351,000 | 153,350 |
| FROZEN | DO | 23,000 | 9,650 | 80,000 | 30,600 |
| YELLOW PIKE FILLETS: | | | | | |
| FRESH | DO | 18,500 | 13,465 | {1} | {1} |
| FROZEN | DO | 12,000 | 9,020 | {1} | {1} |
| UNCLASSIFIED PRODUCTS: | | | | | |
| PACKAGED FISH AND SHELLFISH, | | | | | |
| FROZEN 2/ | DO | 466,000 | 430,670 | 13,900 | 10,175 |
| CURED | DO | 138,172 | 97,499 | - | - |
| TOTAL | - | - | 580,274 | - | 195,575 |
| | | | | | |
| ITEM | | OHIO | | MICHIGAN | |
| | | QUANTITY | VALUE | QUANTITY | VALUE |
| CHUBS, SMOKED | POUNDS | {1} | {1} | 1,150,000 | \$570,295 |
| HERRING, LAKE: | | | | | |
| FILLETS: | | | | | |
| FRESH | DO | {1} | {1} | 22,500 | 5,100 |
| FROZEN | DO | - | - | 35,000 | 8,850 |
| SALTED | DO | - | - | 1,286,000 | 224,480 |
| SMOKED | DO | - | - | {1} | {1} |
| HERRING, SEA, SALTED | DO | {1} | {1} | 3,058,000 | 1,389,800 |
| LAKE TROUT: | | | | | |
| FILLETS: | | | | | |
| FRESH | DO | 3,990 | \$3,402 | 16,000 | 13,470 |
| FROZEN | DO | - | - | 6,335 | 6,741 |
| SMOKED | DO | - | - | 52,000 | 36,500 |
| SABLEFISH, SMOKED | DO | {1} | {1} | 470,000 | 282,000 |
| SALMON, SMOKED | DO | {1} | {1} | 520,500 | 582,450 |
| SAUGER FILLETS: | | | | | |
| FRESH | DO | 202,000 | 172,250 | 40,000 | 32,000 |
| FROZEN | DO | 60,000 | 56,000 | - | - |
| WHITE BASS, FRESH AND FROZEN FILLETS | DO | 16,850 | 7,199 | {1} | {1} |
| WHITEFISH: | | | | | |
| FILLETS: | | | | | |
| FRESH | DO | 54,200 | 40,740 | 12,000 | 9,750 |
| FROZEN | DO | - | - | {1} | {1} |
| SMOKED | DO | {1} | {1} | 173,500 | 108,500 |
| YELLOW PERCH FILLETS: | | | | | |
| FRESH | DO | 749,550 | 356,680 | 376,600 | 154,830 |
| FROZEN | DO | 211,270 | 108,042 | 326,000 | 116,300 |
| YELLOW PIKE FILLETS: | | | | | |
| FRESH | DO | 180,625 | 150,094 | 203,000 | 128,600 |
| FROZEN | DO | 53,675 | 46,379 | 101,669 | 51,502 |
| UNCLASSIFIED PRODUCTS: | | | | | |
| PACKAGED FISH AND SHELLFISH, | | | | | |
| FROZEN 2/ | DO | 19,181,590 | 6,796,609 | 40,350 | 19,985 |
| CANNED | STANDARD CASES | - | - | 3/34,145 | 3/334,649 |
| CURED 4/ | POUNDS | 467,000 | 359,000 | 59,000 | 27,750 |
| TOTAL | - | - | 8,096,395 | - | 4,103,532 |

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GREAT LAKES FISHERIES

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MANUFACTURED FISHERY PRODUCTS, 1961 - Continued

| ITEM | ILLINOIS | | WISCONSIN | | MINNESOTA | |
|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| CHUBS, SMOKED POUNDS | 1,020,000 | \$586,700 | 1,699,000 | \$690,600 | (1) | (1) |
| HERRING, LAKE: | | | | | | |
| FILLETS: | | | | | | |
| FRESH DO | 15,309 | 6,439 | (1) | (1) | - | - |
| FROZEN DO | 2,000 | 750 | - | - | (1) | (1) |
| SALTED DO | - | - | 535,000 | 78,500 | (1) | (1) |
| SMOKED DO | - | - | 131,500 | 31,860 | (1) | (1) |
| HERRING, SEA, SALTED DO | 5,700,000 | 2,986,000 | (1) | (1) | (1) | (1) |
| LAKE TROUT: | | | | | | |
| FILLETS: | | | | | | |
| FRESH DO | 22,000 | 16,250 | 30,500 | 29,325 | - | - |
| FROZEN DO | 24,000 | 17,525 | 13,620 | 13,115 | - | - |
| SMOKED DO | 15,500 | 14,550 | 29,500 | 19,450 | (1) | (1) |
| SABLEFISH, SMOKED DO | 316,000 | 165,450 | 52,000 | 27,950 | - | - |
| SALMON, SMOKED DO | 716,000 | 1,156,000 | 74,000 | 49,660 | (1) | (1) |
| SAUGER FILLETS: | | | | | | |
| FRESH DO | 20,000 | 14,175 | 78,000 | 61,350 | - | - |
| FROZEN DO | 7,000 | 4,350 | 18,000 | 16,690 | - | - |
| STURGEON, SMOKED DO | 10,000 | 18,100 | - | - | - | - |
| WHITE BASS, FRESH AND FROZEN | | | | | | |
| FILLETS DO | 12,692 | 7,035 | (1) | (1) | - | - |
| WHITEFISH: | | | | | | |
| FILLETS: | | | | | | |
| FRESH DO | 223,099 | 180,145 | 78,000 | 67,000 | - | - |
| FROZEN DO | 130,992 | 84,594 | 30,670 | 18,999 | - | - |
| SMOKED DO | 28,000 | 25,300 | 60,000 | 31,400 | (1) | (1) |
| YELLOW PERCH FILLETS: | | | | | | |
| FRESH DO | 47,832 | 34,499 | 740,200 | 352,900 | - | - |
| FROZEN DO | 12,890 | 7,429 | 367,000 | 159,240 | - | - |
| YELLOW PIKE FILLETS: | | | | | | |
| FRESH DO | 141,625 | 115,409 | 95,000 | 86,050 | - | - |
| FROZEN DO | 53,697 | 45,158 | 92,090 | 87,679 | - | - |
| UNCLASSIFIED PRODUCTS: | | | | | | |
| PACKAGED FISH AND SHELLFISH, | | | | | | |
| FROZEN 2/ DO | 78,000 | 99,900 | 631,400 | 295,516 | - | - |
| CURED 4/ DO | 63,000 | 32,000 | 460,000 | 247,000 | 905,000 | \$277,000 |
| TOTAL | - | 5,617,758 | - | 2,364,284 | - | 277,000 |

1/ INCLUDED WITH UNCLASSIFIED PRODUCTS.

2/ INCLUDES FRESH FILLETS OF LAKE HERRING, PIKE OR PICKEREL, AND WHITE BASS; FRESH AND FROZEN FILLETS OF LAKE TROUT, SAUGER, WHITEFISH, AND YELLOW PIKE; FROZEN STEAKS AND PORTIONS OF UNCLASSIFIED SPECIES; FROZEN COOKED SHRIMP; REFRIGERATED SHRIMP COCKTAIL; FROZEN BREADED COD, YELLOW PERCH, SHRIMP, OYSTERS, SCALLOPS, FISH FILLETS, FISH PORTIONS, AND FISH STICKS.

3/ INCLUDES CANNED ANCHOVY PASTE, FISH APPETIZERS, FISH SPREADS, AND ANIMAL FOOD (CONTAINING 10 OR MORE POUNDS OF FISH PER STANDARD CASE).

4/ INCLUDES SALTED LAKE HERRING, MACKEREL, AND SEA HERRING; LUTEFISK (FROM DRIED COD); SMOKED BUTTERFISH, CARP, CHUBS, CISCO, EELS, LAKE HERRING, LAKE TROUT, SABLEFISH, SALMON, WHITEFISH, AND WHITING.

SUMMARY OF MANUFACTURED PRODUCTS, 1961

(VALUE IN THOUSANDS OF DOLLARS)

| SUMMARY OF ITEMS | QUANTITY | VALUE |
|--|--------------|--------|
| FRESH AND FROZEN PACKAGED: | | |
| NOT BREADED: | | |
| FISH FILLETS, STEAKS, AND PORTIONS | 1,000 POUNDS | 5,980 |
| SHELLFISH (SHRIMP) DO | - | 691 |
| BREADED: | | |
| FILLETS, PORTIONS, AND STICKS DO | 19,227 | 6,508 |
| SHELLFISH DO | 167 | 184 |
| CURED FISH: | | |
| SALTED, PICKLED, AND LUTEFISK (FROM | | |
| DRIED COD) DO | 12,049 | 5,261 |
| SMOKED DO | 7,140 | 4,855 |
| MISCELLANEOUS (CHILLED AND CANNED) | - | 356 |
| TOTAL | - | 21,235 |

GREAT LAKES FISHERIES

VALUE OF MANUFACTURED PRODUCTS, BY STATES, 1961

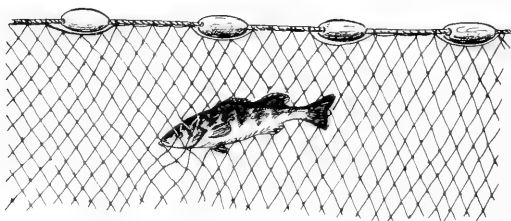
(THOUSANDS OF DOLLARS)

| STATE | VALUE |
|------------------------|--------|
| NEW YORK | 560 |
| PENNSYLVANIA | 196 |
| OHIO | 8,096 |
| MICHIGAN | 4,104 |
| ILLINOIS | 5,618 |
| WISCONSIN | 2,364 |
| MINNESOTA | 277 |
| TOTAL | 21,235 |

WHOLESALE AND MANUFACTURING, 1961

| ITEM | NEW YORK | PENN- SYLVANIA | OHIO | INDIANA |
|------------------------------|---------------|-------------------|---------------|---------------|
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| WHOLESALE AND MANUFACTURING: | | | | |
| ESTABLISHMENTS | 21 | 3 | 43 | 7 |
| PERSONS ENGAGED: | | | | |
| AVERAGE FOR SEASON | 177 | 21 | 597 | 22 |
| AVERAGE FOR YEAR | 85 | 7 | 306 | 12 |

| ITEM | ILLINOIS | MICHIGAN | MINNESOTA | WISCONSIN | TOTAL |
|------------------------------|---------------|---------------|---------------|---------------|---------------|
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| WHOLESALE AND MANUFACTURING: | | | | | |
| ESTABLISHMENTS | 44 | 67 | 11 | 51 | 247 |
| PERSONS ENGAGED: | | | | | |
| AVERAGE FOR SEASON | 807 | 721 | 139 | 589 | 3,073 |
| AVERAGE FOR YEAR | 657 | 373 | 48 | 330 | 1,818 |



GILL NET

GREAT LAKES FISHERIES

343

LAKE ONTARIO - OPERATING UNITS BY GEAR, 1961

| ITEM | HAUL SEINES, COMMON | TRAP NETS | FYKE AND HOOP NETS | GILL NETS | | | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|--------------------------|------------------------|--------------|-----------------------------|-------------------------------|-----------------------|----------------------------|--|
| | | | | 2-1/8 - 3-7/8 INCH MESH | 4 - 7 INCH MESH | 7-1/8 - 14 INCH MESH | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | | |
| ON VESSELS | - | - | - | 4 | 4 | - | 4 |
| ON BOATS AND SHORE: | | | | | | | |
| CASUAL | 6 | 32 | 19 | 20 | 8 | 6 | 73 |
| TOTAL | 6 | 32 | 19 | 24 | 12 | 6 | 77 |
| VESSELS, MOTOR | - | - | - | 1 | 1 | - | 1 |
| GROSS TONNAGE | - | - | - | 10 | 10 | - | 10 |
| BOATS: | | | | | | | |
| MOTOR | 2 | 16 | 10 | 10 | 4 | 3 | 36 |
| OTHER | 2 | - | - | - | - | - | 2 |
| GEAR: | | | | | | | |
| NUMBER | 1 | 51 | 48 | 14 | 6 | 3 | - |
| LENGTH, YARDS | 230 | - | - | - | - | - | - |
| SQUARE YARDS | - | - | - | 26,800 | 31,500 | 5,400 | - |

LAKE ERIE - OPERATING UNITS BY GEAR, 1961

| ITEM | HAUL SEINES, COMMON | OTTER TRAWLS, FISH | POUND NETS | TRAP NETS | FYKE AND HOOP NETS |
|--------------------------|------------------------|--------------------------|---------------|--------------|-----------------------------|
| | | | | | |
| FISHERMEN: | | | | | |
| ON VESSELS | 6 | 15 | 4 | 198 | - |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | 127 | - | - | 10 | 3 |
| CASUAL | 149 | - | - | 21 | 11 |
| TOTAL | 282 | 15 | 4 | 229 | 14 |
| VESSELS, MOTOR | 1 | 5 | 2 | 77 | - |
| GROSS TONNAGE | 13 | 76 | 14 | 985 | - |
| BOATS: | | | | | |
| MOTOR | 68 | - | - | 16 | 7 |
| OTHER | 68 | - | - | 91 | - |
| GEAR: | | | | | |
| NUMBER | 69 | 5 | 5 | 1,894 | 42 |
| LENGTH, YARDS | 59,070 | - | - | - | - |
| YARDS AT MOUTH | - | 85 | - | - | - |

| ITEM | GILL NETS | | | LINES | | DIP NETS | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|--------------------------|----------------------------------|-----------------------|----------------------------|--------|------------------------------|-------------|--|
| | 2-1/8 - 3-7/8 INCH MESH | 4 - 7 INCH MESH | 7-1/4 - 14 INCH MESH | HAND | LONG OR SET WITH HOOKS | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | | |
| ON VESSELS | 107 | 98 | - | - | 2 | - | 319 |
| ON BOATS AND SHORE: | | | | | | | |
| REGULAR | 6 | 8 | - | - | 7 | - | 142 |
| CASUAL | 31 | 70 | 2 | 1 | 311 | 6 | 561 |
| TOTAL | 144 | 176 | 2 | 1 | 320 | 6 | 1,022 |
| VESSELS, MOTOR | 29 | 27 | - | - | 1 | - | 110 |
| GROSS TONNAGE | 403 | 377 | - | - | 11 | - | 1,425 |
| BOATS: | | | | | | | |
| MOTOR | 19 | 41 | 1 | 1 | 240 | 6 | 268 |
| OTHER | - | - | - | - | - | - | 159 |
| GEAR: | | | | | | | |
| NUMBER | 64 | 86 | 1 | 1 | 391 | 6 | - |
| SQUARE YARDS | 370,100 | 423,100 | 1,000 | - | - | - | - |
| HOOKS | - | - | - | 2 | 69,760 | - | - |

GREAT LAKES FISHERIES

LAKE HURON - OPERATING UNITS BY GEAR, 1961

| ITEM | HAUL SEINES, COMMON | POUND NETS | TRAP NETS | FYKE AND HOOP NETS | GILL NETS |
|--------------------------|------------------------|---------------|--------------|-----------------------------|---------------------------|
| | | | | | 1-1/4 - 2 INCH MESH |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | |
| ON VESSELS | 4 | 3 | 93 | - | - |
| ON BOATS AND SHORE: | | | | | |
| REGULAR | 19 | 1 | 29 | - | - |
| CASUAL | 69 | 11 | 67 | 1 | 1 |
| TOTAL | 92 | 15 | 189 | 1 | 1 |
| VESSELS, MOTOR | 1 | 1 | 31 | - | - |
| GROSS TONNAGE | 9 | 10 | 320 | - | - |
| BOATS: | | | | | |
| MOTOR | 22 | 6 | 45 | 1 | 1 |
| OTHER | 22 | 2 | 63 | - | - |
| GEAR: | | | | | |
| NUMBER | 23 | 19 | 574 | 6 | 1 |
| LENGTH, YARDS | 12,530 | - | - | - | - |
| SQUARE YARDS | - | - | - | - | 100 |

| ITEM | GILL NETS - CONTINUED | | | LINES | | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|--------------------------|----------------------------------|-----------------------|----------------------------|--------|------------------------------|--|
| | 2-1/8 - 3-7/8 INCH MESH | 4 - 7 INCH MESH | 7-1/8 - 14 INCH MESH | HAND | LONG OR SET WITH HOOKS | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| FISHERMEN: | | | | | | |
| ON VESSELS | 166 | 31 | - | - | - | 250 |
| ON BOATS AND SHORE: | | | | | | |
| REGULAR | 7 | 5 | 22 | - | 16 | 40 |
| CASUAL | 66 | 26 | 41 | 1 | 92 | 279 |
| TOTAL | 239 | 62 | 63 | 1 | 108 | 569 |
| VESSELS, MOTOR | 54 | 10 | - | - | - | 82 |
| GROSS TONNAGE | 1,098 | 172 | - | - | - | 1,393 |
| BOATS: | | | | | | |
| MOTOR | 48 | 17 | 22 | 1 | 66 | 172 |
| OTHER | - | - | - | - | - | 78 |
| GEAR: | | | | | | |
| NUMBER | 199 | 39 | 59 | 2 | 101 | - |
| SQUARE YARDS | 1,048,100 | 180,900 | 121,400 | - | - | - |
| HOOKS | - | - | - | 2 | 43,940 | - |

LAKE MICHIGAN - OPERATING UNITS BY GEAR, 1961

| ITEM | HAUL SEINES, COMMON | OTTER TRAWLS, FISH | POUND NETS | TRAP NETS | FYKE AND HOOP NETS | GILL NETS |
|--------------------------|------------------------|--------------------------|---------------|--------------|-----------------------------|---------------------------|
| | | | | | | 1-1/4 - 2 INCH MESH |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | |
| ON VESSELS | - | 40 | 23 | 9 | 3 | 3 |
| ON BOATS AND SHORE: | | | | | | |
| REGULAR | 9 | - | 48 | 12 | 14 | 2 |
| CASUAL | 44 | - | 188 | 32 | 15 | 63 |
| TOTAL | 53 | 40 | 259 | 53 | 32 | 68 |
| VESSELS, MOTOR | - | 13 | 8 | 3 | 1 | 1 |
| GROSS TONNAGE | - | 453 | 113 | 37 | 8 | 14 |
| BOATS: | | | | | | |
| MOTOR | 13 | - | 86 | 18 | 15 | 34 |
| OTHER | 13 | - | 15 | 12 | - | - |
| GEAR: | | | | | | |
| NUMBER | 13 | 13 | 243 | 143 | 95 | 43 |
| LENGTH, YARDS | 8,040 | - | - | - | - | - |
| SQUARE YARDS | - | - | - | - | - | 22,600 |
| YARDS AT MOUTH | - | 314 | - | - | - | - |

(CONTINUED ON NEXT PAGE)

GREAT LAKES FISHERIES

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LAKE MICHIGAN - OPERATING UNITS BY GEAR, 1961 - Continued

| ITEM | GILL NETS - CONTINUED | | | LINES | | TOTAL, EXCLUSIVE OF DUPLICATION |
|--------------------------|-------------------------|-----------------|----------------------|--------|------------------------|---------------------------------|
| | 2-1/8 - 3-7/8 INCH MESH | 4 - 7 INCH MESH | 7-1/8 - 14 INCH MESH | HAND | LONG OR SET WITH HOOKS | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | |
| ON VESSELS | 472 | 207 | 2 | - | - | 532 |
| ON BOATS AND SHORE: | | | | | | |
| REGULAR | 66 | 30 | - | - | - | 66 |
| CASUAL | 517 | 140 | 35 | 1 | 3 | 769 |
| TOTAL | 1,055 | 377 | 37 | 1 | 3 | 1,367 |
| VESSELS, MOTOR | 165 | 72 | 1 | - | - | 184 |
| GROSS TONNAGE | 3,598 | 1,495 | 20 | - | - | 4,075 |
| BOATS: | | | | | | |
| MOTOR | 237 | 39 | 4 | 1 | 2 | 362 |
| OTHER | - | - | - | - | - | 36 |
| GEAR: | | | | | | |
| NUMBER | 902 | 268 | 28 | 6 | 2 | - |
| SQUARE YARDS | 3,334,900 | 1,229,600 | 35,800 | - | - | - |
| HOOKS | - | - | - | 6 | 735 | - |

LAKE SUPERIOR - OPERATING UNITS BY GEAR, 1961

| ITEM | HAUL SEINES, COMMON | POUND NETS | TRAP NETS | FYKE AND HOOP NETS | GILL NETS | | | LINES, TROLL | TOTAL, EXCLUSIVE OF DUPLICATION |
|--------------------------|---------------------|------------|-----------|--------------------|---------------------|-------------------------|-----------------|--------------|---------------------------------|
| | | | | | 1-1/4 - 2 INCH MESH | 2-1/8 - 3-7/8 INCH MESH | 4 - 7 INCH MESH | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| FISHERMEN: | | | | | | | | | |
| ON VESSELS | - | 27 | 3 | - | - | 268 | 213 | 5 | 309 |
| ON BOATS AND SHORE: | | | | | | | | | |
| REGULAR | - | 20 | - | - | 3 | 42 | 21 | - | 55 |
| CASUAL | 4 | 18 | - | 2 | 6 | 286 | 98 | 11 | 378 |
| TOTAL | 4 | 65 | 3 | 2 | 9 | 586 | 332 | 16 | 742 |
| VESSELS, MOTOR | - | 10 | 1 | - | - | 97 | 78 | 2 | 114 |
| GROSS TONNAGE | - | 139 | 18 | - | - | 1,666 | 1,253 | 25 | 1,861 |
| BOATS: | | | | | | | | | |
| MOTOR | 1 | 14 | - | 1 | 2 | 167 | 68 | 8 | 221 |
| OTHER | 1 | 3 | 1 | - | - | - | - | - | 5 |
| GEAR: | | | | | | | | | |
| NUMBER | 1 | 115 | 24 | 1 | 7 | 533 | 287 | 62 | - |
| LENGTH, YARDS | 260 | - | - | - | - | - | - | - | - |
| SQUARE YARDS | - | - | - | - | 5,600 | 1,839,900 | 2,156,400 | - | - |
| HOOKS | - | - | - | - | - | - | - | 62 | - |

LAKE OF THE WOODS, NAMAKAN LAKE, AND RAINY LAKE

OPERATING UNITS BY GEAR, 1961

| ITEM | OTTER TRAWLS, FISH | POUND NETS | TRAP NETS | FYKE AND HOOP NETS | GILL NETS, 4 - 7 INCH MESH | TOTAL, EXCLUSIVE OF DUPLICATION |
|--------------------------|--------------------|------------|-----------|--------------------|----------------------------|---------------------------------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | |
| ON VESSELS | 6 | - | - | - | - | 6 |
| ON BOATS AND SHORE: | | | | | | |
| REGULAR | - | - | 5 | - | 32 | 37 |
| CASUAL | - | 2 | 3 | 4 | 32 | 41 |
| TOTAL | 6 | 2 | 8 | 4 | 64 | 84 |
| VESSELS, MOTOR | 2 | - | - | - | - | 2 |
| GROSS TONNAGE | 49 | - | - | - | - | 49 |
| BOATS: | | | | | | |
| MOTOR | - | 1 | 3 | 2 | 32 | 36 |
| OTHER | - | 1 | 2 | - | - | 3 |
| GEAR: | | | | | | |
| NUMBER | 2 | 6 | 26 | 11 | 176 | - |
| SQUARE YARDS | - | - | - | - | 97,600 | - |
| YARDS AT MOUTH | 45 | - | - | - | - | - |

GREAT LAKES FISHERIES

CATCH BY LAKE, STATE, AND GEAR, 1961

| SPECIES | LAKE ONTARIO | | | | | |
|-----------------------------|--------------|-------|-----------|--------|--------------------|-------|
| | NEW YORK | | | | | |
| | HAUL SEINES | | TRAP NETS | | FYKE AND HOOP NETS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BLUE PIKE | - | - | 100 | \$27 | - | - |
| BOWFIN | - | - | 2,000 | 39 | 200 | \$4 |
| BULLHEADS | 3,000 | \$839 | 56,100 | 15,690 | 11,400 | 3,195 |
| BURBOT | - | - | 1,000 | 61 | (1) | 1 |
| CARP | 9,100 | 162 | 36,500 | 731 | 3,300 | 66 |
| CATFISH | (1) | 3 | 2,300 | 318 | (1) | 2 |
| CHUBS | - | - | (1) | 2 | - | - |
| CISCO | - | - | 200 | 43 | - | - |
| CRAPPIE | - | - | 300 | 30 | (1) | 5 |
| EELS | - | - | 30,000 | 4,500 | 300 | 50 |
| GARFISH | - | - | (1) | (1) | - | - |
| ROCK BASS | - | - | 9,100 | 637 | 100 | 4 |
| SHEEPSHEAD | - | - | (1) | (1) | - | - |
| SMELT | - | - | (1) | 7 | - | - |
| SUCKERS | - | - | 17,800 | 357 | 300 | 6 |
| SUNFISH | 300 | 31 | 18,300 | 2,019 | 500 | 51 |
| WHITE BASS | - | - | 900 | 103 | (1) | 1 |
| WHITEFISH, COMMON | - | - | 100 | 44 | - | - |
| WHITE PERCH | - | - | 600 | 46 | 100 | 7 |
| YELLOW PERCH | - | - | 23,000 | 1,380 | 1,600 | 95 |
| YELLOW PIKE | - | - | 300 | 79 | - | - |
| TOTAL | 12,400 | 1,055 | 198,600 | 26,113 | 17,800 | 3,487 |

| SPECIES | LAKE ONTARIO - CONTINUED | | | | LAKE ERIE | |
|-----------------------------|--------------------------|--------|---------|--------|-----------|--------|
| | NEW YORK - CONTINUED | | | | NEW YORK | |
| | GILL NETS | | TOTAL | | GILL NETS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BLUE PIKE | 400 | \$161 | 500 | \$188 | 100 | \$17 |
| BOWFIN | - | - | 2,200 | 43 | - | - |
| BULLHEADS | 500 | 128 | 71,000 | 19,852 | - | - |
| BURBOT | - | - | 1,000 | 62 | (1) | 3 |
| CARP | 200 | 3 | 49,100 | 982 | 200 | 4 |
| CATFISH | 700 | 174 | 3,000 | 497 | 900 | 210 |
| CHUBS | (1) | 2 | (1) | 4 | - | - |
| CISCO | 2,300 | 741 | 2,500 | 784 | 2,300 | 930 |
| CRAPPIE | - | - | 300 | 35 | - | - |
| EELS | - | - | 30,300 | 4,550 | - | - |
| GARFISH | - | - | (1) | (1) | - | - |
| LAKE TROUT | 5,100 | 2,794 | 5,100 | 2,794 | - | - |
| ROCK BASS | (1) | 6 | (1) | 647 | - | - |
| SHEEPSHEAD | (1) | 1 | (1) | 1 | 12,400 | 371 |
| SMELT | 200 | 34 | 200 | 41 | 700 | 58 |
| STURGEON | 2,000 | 2,135 | 2,000 | 2,135 | 200 | 198 |
| SUCKERS | 600 | 12 | 18,700 | 375 | 9,500 | 191 |
| SUNFISH | - | - | 19,100 | 2,101 | - | - |
| WHITE BASS | 7,000 | 769 | 7,900 | 873 | 22,500 | 2,250 |
| WHITEFISH, COMMON | 59,100 | 23,038 | 59,200 | 23,082 | 400 | 283 |
| WHITE PERCH | - | - | 700 | 53 | - | - |
| YELLOW PERCH | 43,600 | 5,235 | 68,200 | 6,710 | 412,400 | 45,364 |
| YELLOW PIKE | 700 | 338 | 1,000 | 417 | 84,200 | 26,106 |
| TOTAL | 122,400 | 35,571 | 351,200 | 66,226 | 545,800 | 75,985 |

| SPECIES | LAKE ERIE - CONTINUED | | | | | |
|-----------------------|-----------------------|-------|------------|-------|-----------|-------|
| | PENNSYLVANIA | | | | | |
| | OTTER TRAWLS | | POUND NETS | | GILL NETS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BLUE PIKE | - | - | (1) | \$7 | 200 | \$32 |
| BUFFALOFISH | - | - | - | - | (1) | (1) |
| BULLHEADS | - | - | - | - | 100 | 17 |
| BURBOT | (1) | (1) | - | - | 1,300 | 38 |
| CARP | - | - | 2,600 | 52 | 100 | 3 |
| CATFISH | - | - | 400 | 79 | 900 | 153 |
| CISCO | - | - | (1) | 17 | 1,300 | 374 |
| LAKE TROUT | - | - | (1) | - | (1) | 5 |
| SHEEPSHEAD | 300 | 36 | 17,000 | 375 | 6,400 | 102 |
| SMELT | 600 | 12 | - | - | 300 | 19 |
| STURGEON | - | - | (1) | 32 | - | - |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GREAT LAKES FISHERIES

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CATCH BY LAKE, STATE, AND GEAR, 1961 - Continued

| SPECIES | LAKE ERIE - CONTINUED | | | | | |
|-----------------------------|-----------------------|---------|------------|--------|-----------|---------|
| | PENNSYLVANIA | | | | | |
| | OTTER TRAWLS | | POUND NETS | | GILL NETS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| SUCKERS | (1) | (1) | 2,000 | \$87 | 1,800 | \$43 |
| WHITE BASS | - | - | 76,100 | 7,609 | 29,100 | 2,210 |
| WHITEFISH, COMMON | - | - | 600 | 361 | 1,300 | 760 |
| YELLOW PERCH | 26,700 | \$2,673 | 83,300 | 7,497 | 1,009,000 | 118,052 |
| YELLOW PIKE | - | - | 4,600 | 1,517 | 17,600 | 4,709 |
| TOTAL | 27,600 | 2,691 | 186,600 | 17,633 | 1,071,400 | 126,517 |

| SPECIES | LAKE ERIE - CONTINUED | | | | | |
|-----------------------------|--------------------------|---------|-------------|---------|--------------|---------|
| | PENNSYLVANIA - CONTINUED | | | OHIO | | |
| | TOTAL | | HAUL SEINES | | OTTER TRAWLS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BLUE PIKE | 200 | \$39 | - | - | - | - |
| BUFFALOFISH | (1) | (1) | 13,600 | \$1,761 | - | - |
| BULLHEADS | 100 | 17 | 52,100 | 6,335 | - | - |
| BURBOT | 1,300 | 36 | - | - | - | - |
| CARP | 2,700 | 55 | 3,006,900 | 120,277 | - | - |
| CATFISH | 1,300 | 232 | 884,900 | 194,667 | - | - |
| CISCO | 1,300 | 391 | - | - | - | - |
| GIZZARD SHAD | - | - | 3,600 | 36 | - | - |
| GOLDFISH | - | - | 298,500 | 8,653 | - | - |
| LAKE TROUT | (1) | 5 | - | - | - | - |
| MOONEYE | - | - | 1,300 | 19 | - | - |
| SHEEPSHEAD | 25,700 | 483 | 2,523,000 | 50,460 | - | - |
| SMELT | 900 | 31 | - | - | 13,700 | \$1,919 |
| STURGEON | (1) | 32 | (1) | 18 | - | - |
| SUCKERS | 3,800 | 130 | 9,800 | 391 | - | - |
| WHITE BASS | 105,200 | 9,819 | 391,300 | 58,697 | - | - |
| WHITEFISH, COMMON | 1,900 | 1,121 | - | - | - | - |
| YELLOW PERCH | 1,119,000 | 128,222 | 51,400 | 6,175 | - | - |
| YELLOW PIKE | 22,200 | 6,226 | 49,000 | 19,611 | - | - |
| TOTAL | 1,285,600 | 146,841 | 7,275,400 | 469,100 | 13,700 | 1,919 |

| SPECIES | LAKE ERIE - CONTINUED | | | | | |
|-----------------------------|-----------------------|---------|--------------------|-------|-----------|---------|
| | OHIO - CONTINUED | | | | | |
| | TRAP NETS | | FYKE AND HOOP NETS | | GILL NETS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BLUE PIKE | 1,700 | \$597 | - | - | 300 | \$98 |
| BUFFALOFISH | 4,400 | 570 | (1) | \$3 | - | - |
| BULLHEADS | 24,600 | 3,943 | 300 | 43 | 200 | 36 |
| BURBOT | 5,600 | 112 | - | - | 600 | 12 |
| CARP | 349,100 | 13,962 | 1,100 | 45 | 34,300 | 1,373 |
| CATFISH | 439,800 | 96,761 | 4,400 | 966 | 10,600 | 2,328 |
| CISCO | 300 | 139 | - | - | 2,200 | 863 |
| GIZZARD SHAD | 3,100 | 31 | - | - | 1,300 | 13 |
| GOLDFISH | 3,900 | 117 | - | - | 600 | 18 |
| MOONEYE | 200 | 4 | - | - | 100 | 1 |
| SAUGER | 100 | 17 | - | - | (1) | (1) |
| SHEEPSHEAD | 3,070,200 | 61,403 | 1,200 | 25 | 33,100 | 662 |
| SMELT | (1) | 1 | - | - | 1,000 | 48 |
| STURGEON | 200 | 157 | - | - | - | - |
| SUCKERS | 238,300 | 9,531 | 500 | 21 | 5,400 | 219 |
| WHITE BASS | 1,414,900 | 212,240 | 31,500 | 4,725 | 67,600 | 10,135 |
| WHITEFISH, COMMON | 2,900 | 2,279 | - | - | 700 | 583 |
| YELLOW PERCH | 1,707,800 | 204,932 | 5,000 | 601 | 295,300 | 35,435 |
| YELLOW PIKE | 360,600 | 144,231 | 700 | 292 | 183,100 | 73,221 |
| TOTAL | 7,627,700 | 751,027 | 44,700 | 6,721 | 636,400 | 125,045 |

| SPECIES | LAKE ERIE - CONTINUED | | | | | |
|-----------------------|-------------------------------|-------|----------|-------|--------|--------|
| | OHIO - CONTINUED | | | | | |
| | LINES, LONG OR SET WITH HOOKS | | DIP NETS | | TOTAL | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BLUE PIKE | - | - | - | - | 2,000 | \$695 |
| BUFFALOFISH | (1) | \$4 | - | - | 18,000 | 2,338 |
| BULLHEADS | 2,100 | 343 | 300 | \$41 | 79,600 | 12,741 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GREAT LAKES FISHERIES

CATCH BY LAKE, STATE, AND GEAR, 1961 - Continued

| SPECIES | LAKE ERIE - CONTINUED | | | | | |
|-------------------|----------------------------------|---------|----------|-------|------------|-----------|
| | OHIO - CONTINUED | | | | | |
| | LINES, LONG OR SET WITH HOOKS | | DIP NETS | | TOTAL | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BURBOT | - | - | - | - | 6,200 | \$124 |
| CARP | 5,500 | \$220 | 600 | \$23 | 3,397,500 | 135,900 |
| CATFISH | 198,600 | 43,697 | 100 | 29 | 1,538,400 | 338,448 |
| CISCO | - | - | - | - | 2,500 | 80 |
| GIZZARD SHAD | - | - | - | - | 293,000 | 8,768 |
| GOLDFISH | (1) | (1) | - | - | 1,600 | 24 |
| MOONEYE | - | - | - | - | 100 | 17 |
| SAUGER | - | - | (1) | (1) | - | - |
| SHEEPSHEAD | 4,200 | 83 | 100 | 2 | 5,631,800 | 112,635 |
| SMELT | - | - | - | - | 14,700 | 1,968 |
| STURGEON | - | - | - | - | 200 | 175 |
| SUCKERS | (1) | (1) | 100 | 4 | 254,100 | 10,166 |
| WHITE BASS | 100 | 7 | (1) | 1 | 1,905,400 | 285,805 |
| WHITEFISH, COMMON | - | - | - | - | 3,600 | 2,862 |
| YELLOW PERCH | 300 | 42 | 100 | 7 | 2,059,900 | 247,192 |
| YELLOW PIKE | (1) | 6 | (1) | 2 | 593,400 | 237,363 |
| TOTAL | 210,600 | 44,402' | 1,300 | 109' | 15,810,000 | 1,398,323 |

| SPECIES | LAKE ERIE - CONTINUED | | | | | |
|------------------|-----------------------|--------|-----------|--------|--------------------|-------|
| | MICHIGAN | | | | | |
| | HAUL SEINES | | TRAP NETS | | FYKE AND HOOP NETS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BOWFIN | - | - | - | - | (1) | (1) |
| BUFFALOFISH | - | - | 800 | \$103 | (1) | \$1 |
| BULLHEADS | 3,900 | \$624 | 3,500 | 551 | 1,600 | 263 |
| CARP | 1,058,100 | 35,875 | 216,300 | 7,353 | 23,600 | 802 |
| CATFISH | 58,600 | 15,241 | 24,900 | 6,468 | 1,600 | 410 |
| GIZZARD SHAD | - | - | 1,300 | 30 | - | - |
| PIKE OR PICKEREL | - | - | 100 | 18 | 200 | 22 |
| ROCK BASS | - | - | 400 | 112 | 200 | 51 |
| SHEEPSHEAD | 3,300 | 100 | 87,700 | 2,630 | 3,200 | 96 |
| SMELT | (1) | 1 | - | - | - | - |
| STURGEON | - | - | 100 | 34 | - | - |
| SUCKERS | 400 | 10 | 60,500 | 1,513 | 1,300 | 32 |
| WHITE BASS | 7,100 | 531 | 147,000 | 11,028 | 5,200 | 392 |
| YELLOW PERCH | - | 124 | 94,300 | 14,143 | 8,500 | 1,269 |
| YELLOW PIKE | 1,700 | 735 | 97,600 | 41,953 | 1,600 | 712 |
| TOTAL | 1,130,900 | 53,241 | 734,700 | 85,936 | 47,000' | 4,050 |

| SPECIES | LAKE ERIE - CONTINUED | | | | | |
|------------------|-----------------------|-------|--------|-------|------------------------|-------|
| | MICHIGAN - CONTINUED | | | | | |
| | GILL NETS | | LINES | | | |
| | | | HAND | | LONG OR SET WITH HOOKS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| CARP | 2,600 | \$96 | - | - | - | - |
| CATFISH | 400 | 104 | - | - | 100 | \$22 |
| PIKE OR PICKEREL | 900 | 126 | - | - | - | - |
| SHEEPSHEAD | 300 | 9 | - | - | - | - |
| SUCKERS | 100 | 2 | - | - | - | - |
| YELLOW PERCH | - | - | (1) | \$5 | - | - |
| YELLOW PIKE | 4,200 | 1,791 | - | - | - | - |
| TOTAL | 6,700' | 2,128 | (1) | 5 | 100 | 22 |

| SPECIES | LAKE ERIE - CONTINUED | | LAKE HURON | | | |
|------------------|-----------------------|--------|-------------|--------|------------|-------|
| | MICHIGAN - CONTINUED | | MICHIGAN | | | |
| | TOTAL | | HAUL SEINES | | POUND NETS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BOWFIN | (1) | (1) | - | - | - | - |
| BUFFALOFISH | 800 | \$104 | - | - | - | - |
| BULLHEADS | 9,000 | 1,438 | 100 | \$13 | - | - |
| CARP | 1,297,800 | 44,126 | 770,700 | 32,368 | - | - |
| CATFISH | 85,600 | 22,245 | 19,900 | 4,978 | - | - |
| GIZZARD SHAD | 1,500 | 30 | - | - | - | - |
| PIKE OR PICKEREL | 1,200 | 166 | 6,900 | 1,217 | - | - |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GREAT LAKES FISHERIES

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CATCH BY LAKE, STATE, AND GEAR, 1961 - Continued

| SPECIES | LAKE ERIE - CONTINUED | | LAKE HURON | | | |
|-----------------------------|-----------------------|---------|-------------|--------|------------|---------|
| | MICHIGAN - CONTINUED | | MICHIGAN | | | |
| | TOTAL | | HAUL SEINES | | POUND NETS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ROCK BASS | 600 | \$16.3 | 100 | \$10 | - | - |
| SHEEPSHEAD | 94,500 | 2,835 | (1) | (1) | - | - |
| SMELT | (1) | - | - | - | 31,000 | \$1,457 |
| STURGEON | 100 | 34 | - | - | - | - |
| SUCKERS | 62,300 | 1,557 | 44,900 | 1,684 | - | - |
| WHITE BASS | 199,300 | 11,951 | (1) | (1) | - | - |
| WHITEFISH, COMMON | - | - | - | - | 7,900 | 4,252 |
| YELLOW PERCH | 103,600 | 15,541 | 1,100 | 185 | 400 | 56 |
| YELLOW PIKE | 105,100 | 45,191 | 100 | 38 | (1) | 1 |
| TOTAL | 1,921,400 | 145,382 | 843,800 | 40,693 | 39,300 | 5,766 |

| SPECIES | LAKE HURON - CONTINUED | | | | | |
|--------------------------------|------------------------|---------|--------------------|-------|-----------|---------|
| | MICHIGAN - CONTINUED | | | | | |
| | TRAP NETS | | FYKE AND HOOP NETS | | GILL NETS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | 11,500 | \$276 | - | - | 500 | \$11 |
| BOWFIN | 1,000 | 26 | 200 | \$6 | (1) | (1) |
| BULLHEADS | 8,600 | 899 | 3,200 | 332 | (1) | 1 |
| BURBOT | - | - | - | - | (1) | 1 |
| CARP | 135,800 | 5,701 | 3,800 | 160 | 523,000 | 22,051 |
| CATFISH | 43,600 | 10,900 | 600 | 151 | 3,300 | 826 |
| CHUBS | (1) | (1) | - | - | 3,196,800 | 626,581 |
| CRAPPIE | 2,900 | 713 | - | - | (1) | (1) |
| LAKE HERRING | 1,200 | 136 | 200 | 21 | 66,600 | 7,323 |
| PIKE OR PICKEREL | 134,200 | 23,749 | 9,900 | 1,756 | 26,600 | 4,711 |
| QUILLBACK | 8,500 | 282 | - | - | - | 11 |
| ROCK BASS | 6,800 | 955 | 1,300 | 186 | 100 | 17 |
| SAUGER | (1) | - | - | - | (1) | (1) |
| SHEEPSHEAD | 32,000 | 926 | (1) | (1) | 400 | 19 |
| SMELT | - | - | - | - | - | - |
| STURGEON | 800 | 799 | - | - | - | - |
| SUCKERS | 467,000 | 19,612 | 16,600 | 698 | 23,100 | 971 |
| WHITE BASS | 11,900 | 1,146 | - | - | - | - |
| WHITEFISH: COMMON | 374,600 | 202,654 | - | - | 55,600 | 30,085 |
| MEMPHINEE | (1) | 4 | (1) | 3 | 9,300 | 1,651 |
| YELLOW PERCH | 263,000 | 43,658 | 14,600 | 2,426 | 318,700 | 52,697 |
| YELLOW PIKE | 76,700 | 35,762 | 700 | 341 | 3,100 | 1,433 |
| TOTAL | 1,580,100 | 348,199 | 51,100 | 6,080 | 4,229,200 | 748,789 |

| SPECIES | LAKE HURON - CONTINUED | | | | | |
|--------------------------------|------------------------|-------|------------------------|--------|-----------|---------|
| | MICHIGAN - CONTINUED | | | | | |
| | LINES | | | | TOTAL | |
| | HAND | | LONG OR SET WITH HOOKS | | POUNDS | VALUE |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | - | - | - | - | 12,000 | \$287 |
| BOWFIN | - | - | - | - | 1,200 | 32 |
| BULLHEADS | - | - | (1) | \$1 | 11,900 | 1,246 |
| BURBOT | - | - | (1) | - | - | 1 |
| CARP | - | - | 1,800 | 76 | 1,437,100 | 60,356 |
| CATFISH | - | - | 172,200 | 43,040 | 239,600 | 59,895 |
| CHUBS | - | - | - | - | 3,196,800 | 626,581 |
| CRAPPIE | - | - | - | - | 2,900 | 713 |
| LAKE HERRING | - | - | - | - | 68,000 | 7,480 |
| PIKE OR PICKEREL | (1) | \$6 | 100 | 12 | 177,700 | 31,451 |
| QUILLBACK | - | - | - | - | 8,500 | 282 |
| ROCK BASS | - | - | - | - | 8,300 | 1,162 |
| SAUGER | - | - | - | - | 100 | 18 |
| SHEEPSHEAD | - | - | (1) | (1) | 32,000 | 926 |
| SMELT | - | - | - | - | 31,400 | 1,476 |
| STURGEON | - | - | - | - | 800 | 799 |
| SUCKERS | - | - | - | - | 551,600 | 23,165 |
| WHITE BASS | - | - | - | - | 11,900 | 1,146 |
| WHITEFISH: COMMON | - | - | - | - | 438,100 | 236,991 |
| MEMPHINEE | - | - | - | - | 9,300 | 1,658 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GREAT LAKES FISHERIES

CATCH BY LAKE, STATE, AND GEAR, 1961 - Continued

| SPECIES | LAKE HURON - CONTINUED | | | | | |
|------------------------|------------------------|-------|------------------------|--------|-----------|-----------|
| | MICHIGAN - CONTINUED | | | | | |
| | LINES | | | | TOTAL | |
| | HAND | | LONG OR SET WITH HOOKS | | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| YELLOW PERCH | 200 | \$38 | - | - | 598,000 | \$99,260 |
| YELLOW PIKE | - | - | 200 | \$72 | 80,800 | 37,647 |
| TOTAL | 200' | 44' | 174,300' | 43,201 | 6,918,000 | 1,192,772 |

| SPECIES | LAKE MICHIGAN | | | | | |
|-----------------------------|---------------|-------|--------------|---------|------------|---------|
| | MICHIGAN | | | | | |
| | HAUL SEINES | | OTTER TRAWLS | | POUND NETS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | - | - | 354,500 | \$4,609 | 723,900 | \$9,411 |
| BURBOT | - | - | - | - | (1) | (1) |
| CARP | 23,600 | \$636 | - | - | 200 | 6 |
| CHUBS 2/ | - | - | 828,700 | 34,199 | 100 | 9 |
| LAKE HERRING | - | - | 900 | 89 | 100 | 14 |
| LAKE TROUT | - | - | (1) | 1 | - | - |
| PIKE OR PICKEREL | - | - | - | - | 100 | 14 |
| SHEEPSHEAD | - | - | - | - | (1) | (1) |
| SMELT | - | - | 1,200 | 35 | 1,223,300 | 39,146 |
| STURGEON | - | - | - | - | 100 | 81 |
| SUCKERS | 400 | 20 | - | - | 1,600 | 84 |
| WHITEFISH, COMMON | - | - | 200 | 86 | 35,300 | 17,683 |
| YELLOW PERCH | 100 | 19 | 5,300 | 670 | 500 | 65 |
| YELLOW PIKE | - | - | - | - | 1,900 | 803 |
| TOTAL | 24,100' | 675 | 1,190,600' | 39,689 | 1,987,100' | 67,316' |

| SPECIES | LAKE MICHIGAN - CONTINUED | | | | | |
|----------------------------|---------------------------|--------|--------------------|-------|-----------|---------|
| | MICHIGAN - CONTINUED | | | | | |
| | TRAP NETS | | FYKE AND HOOP NETS | | GILL NETS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | 1,100 | \$14 | - | - | 2,600 | \$33 |
| BULLHEADS | 400 | 21 | 200 | \$12 | 200 | 11 |
| BURBOT | - | - | - | - | (1) | (1) |
| CARP | 3,000 | 82 | - | - | 13,800 | 371 |
| CATFISH | 100 | 23 | - | - | (1) | 2 |
| CHUBS 2/ | - | - | - | - | 2,060,500 | 360,586 |
| GARFISH | - | - | - | - | (1) | (1) |
| LAKE HERRING | 900 | 113 | - | - | 82,600 | 10,159 |
| LAKE TROUT | - | - | - | - | 100 | 44 |
| PIKE OR PICKEREL | 5,200 | 526 | 100 | 6 | 3,000 | 307 |
| ROCK BASS | 100 | 9 | 100 | 6 | (1) | 2 |
| SAUGER | - | - | - | - | (1) | 10 |
| SHEEPSHEAD | (1) | 2 | - | - | 100 | 4 |
| SMELT | - | - | - | - | 16,000 | 512 |
| STURGEON | 1,000 | 1,035 | - | - | 100 | 53 |
| SUCKERS | 83,000 | 4,316 | 2,400 | 128 | 37,400 | 1,946 |
| WHITEFISH: | | | | | | |
| COMMON | 32,000 | 16,360 | - | - | 183,900 | 92,140 |
| MENOMINEE | (1) | 12 | - | - | 8,300 | 2,467 |
| YELLOW PERCH | 12,500 | 1,782 | 16,900 | 2,422 | 1,492,100 | 213,366 |
| YELLOW PIKE | 33,000 | 14,000 | 100 | 52 | 47,000 | 19,542 |
| TOTAL | 173,700 | 36,322 | 19,800 | 2,626 | 3,947,700 | 701,557 |

| SPECIES | LAKE MICHIGAN - CONTINUED | | | | | |
|---------------------|---------------------------|-------|------------------------|-------|-----------|----------|
| | MICHIGAN - CONTINUED | | | | | |
| | LINES | | | | TOTAL | |
| | HAND | | LONG OR SET WITH HOOKS | | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | - | - | - | - | 1,082,100 | \$14,067 |
| BULLHEADS | - | - | - | - | 800 | 44 |
| BURBOT | - | - | - | - | (1) | (1) |

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GREAT LAKES FISHERIES

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CATCH BY LAKE, STATE, AND GEAR, 1961 - Continued

| SPECIES | LAKE MICHIGAN - CONTINUED | | | | | |
|----------------------------|---------------------------|-----------|------------------------|------------|------------------|----------------|
| | MICHIGAN - CONTINUED | | | | | |
| | LINES | | | | TOTAL | |
| | HAND | | LONG OR SET WITH HOOKS | | | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| CARP | - | - | (1) | \$1 | 40,600 | \$1,096 |
| CATFISH | - | - | 100 | 14 | 200 | 39 |
| CHUBS 2/ | - | - | - | - | 2,889,300 | 394,794 |
| GARFISH | - | - | - | - | (1) | (1) |
| LAKE HERRING | - | - | - | - | 84,500 | 10,375 |
| LAKE TROUT | - | - | - | - | 100 | 45 |
| PIKE OR PICKEREL | - | - | (1) | 2 | 8,400 | 855 |
| ROCK BASS | - | - | - | - | 200 | 17 |
| SAUGER | - | - | - | - | (1) | 10 |
| SHEEPSHEAD | - | - | - | - | 100 | 6 |
| SMELT | - | - | - | - | 1,240,500 | 39,693 |
| STURGEON | - | - | 300 | 349 | 1,500 | 1,518 |
| SUCKERS | 100 | \$3 | - | - | 124,900 | 6,497 |
| WHITEFISH: | | | | | | |
| COMMON | - | - | - | - | 252,100 | 126,289 |
| MENOMINEE | - | - | - | - | 8,300 | 2,479 |
| YELLOW PERCH | 100 | 14 | - | - | 1,827,500 | 218,340 |
| YELLOW PIKE | 100 | 22 | - | - | 82,800 | 34,426 |
| TOTAL | 300 | 39 | 400 | 365 | 7,343,900 | 850,590 |

| SPECIES | LAKE MICHIGAN - CONTINUED | | | | | |
|----------------------------|---------------------------|--------------|----------------|---------------|------------------|---------------|
| | INDIANA | | ILLINOIS | | WISCONSIN | |
| | GILL NETS | | GILL NETS | | HAUL SEINES | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | 3,700 | \$47 | - | - | 1,100 | \$110 |
| BULLHEADS | - | - | - | - | 1,528,300 | 45,850 |
| CARP | 100 | 2 | 165,100 | \$28,231 | - | - |
| CHUBS | 100 | 7 | 400 | 24 | - | - |
| LAKE HERRING | (1) | 5 | - | - | - | - |
| LAKE TROUT | - | - | - | - | - | - |
| PIKE OR PICKEREL | - | - | - | - | 400 | 53 |
| SHEEPSHEAD | - | - | - | - | 600 | 26 |
| SMELT | 200 | 8 | - | - | - | - |
| SUCKERS | 1,500 | 79 | - | - | 1,700 | 84 |
| YELLOW PERCH | 8,000 | 1,198 | 175,000 | 26,075 | - | - |
| YELLOW PIKE | - | - | - | - | 600 | 270 |
| TOTAL | 13,600 | 1,346 | 340,500 | 54,330 | 1,532,900 | 46,393 |

| SPECIES | LAKE MICHIGAN - CONTINUED | | | | | |
|----------------------------|---------------------------|----------------|------------------|---------------|------------|-----------|
| | WISCONSIN - CONTINUED | | | | | |
| | OTTER TRAWLS | | POUND NETS | | TRAP NETS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | 1,693,800 | \$22,019 | 397,300 | \$5,165 | (1) | (1) |
| BURBOT | - | - | 5,500 | 276 | (1) | \$1 |
| CARP | - | - | 100 | 3 | - | - |
| CHUBS 2/ | 5,389,200 | 219,037 | 100 | 10 | (1) | 8 |
| LAKE HERRING | 2,800 | 332 | 900 | 107 | - | - |
| PIKE OR PICKEREL | - | - | 200 | 30 | - | - |
| SMELT | 334,400 | 13,377 | 552,300 | 22,092 | - | - |
| SUCKERS | - | - | 7,200 | 359 | 200 | 13 |
| WHITEFISH: | | | | | | |
| COMMON | - | - | 44,200 | 27,392 | (1) | 12 |
| MENOMINEE | - | - | 1,700 | 369 | - | - |
| YELLOW PERCH | 9,400 | 1,314 | 800 | 115 | (1) | 6 |
| YELLOW PIKE | - | - | 100 | 29 | - | - |
| TOTAL | 7,429,600 | 256,079 | 1,010,400 | 55,947 | 200 | 40 |

| SPECIES | LAKE MICHIGAN - CONTINUED | | | | | |
|--------------------|---------------------------|-------|-----------|-------|-----------|----------|
| | WISCONSIN - CONTINUED | | | | | |
| | FYKE AND HOOP NETS | | GILL NETS | | TOTAL | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | 6,400 | \$82 | 15,700 | \$204 | 2,113,200 | \$27,470 |
| BOWFIN | - | - | 200 | 5 | 200 | 5 |

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GREAT LAKES FISHERIES

CATCH BY LAKE, STATE, AND GEAR, 1961 - Continued

| SPECIES | LAKE MICHIGAN - CONTINUED | | | | | |
|----------------------------|---------------------------|---------|-----------|-----------|------------|-----------|
| | WISCONSIN - CONTINUED | | | | | |
| | FYKE AND HOOP NETS | | GILL NETS | | TOTAL | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BULLHEADS | 30,600 | \$3,056 | 300 | \$29 | 32,000 | \$3,195 |
| BURBOT | - | - | (1) | 1 | 5,500 | 278 |
| CARP | 98,800 | 2,963 | 174,100 | 5,223 | 1,801,300 | 54,039 |
| CATFISH | 100 | 18 | - | - | 100 | 18 |
| CHUBS 2/ | - | - | 3,689,400 | 664,092 | 9,078,700 | 883,147 |
| LAKE HERRING | 4,800 | 581 | 83,300 | 9,994 | 91,800 | 11,014 |
| LAKE TROUT | - | - | (1) | 11 | (1) | 11 |
| PIKE OR PICKEREL | 24,100 | 3,620 | 17,900 | 2,679 | 42,600 | 6,382 |
| SHEEPSHEAD | 1,200 | 47 | (1) | 1 | 1,800 | 74 |
| SMELT | 2,000 | 80 | 22,800 | 910 | 911,500 | 36,459 |
| SUCKERS | 225,700 | 11,284 | 133,300 | 6,667 | 368,100 | 18,407 |
| WHITE BASS | (1) | 1 | - | - | (1) | 1 |
| WHITEFISH: | | | | | | |
| COMMON | - | - | 99,200 | 61,526 | 143,400 | 88,930 |
| MENOMINEE | - | - | 6,900 | 1,530 | 8,600 | 1,899 |
| YELLOW PERCH | 659,900 | 92,381 | 2,578,300 | 360,955 | 3,248,400 | 454,771 |
| YELLOW PIKE | 3,800 | 1,366 | 9,400 | 3,394 | 14,100 | 5,059 |
| CRAWFISH | - | - | (1) | (1) | (1) | (1) |
| TOTAL | 1,057,400 | 115,479 | 6,830,800 | 1,117,221 | 17,861,300 | 1,591,159 |

| SPECIES | LAKE SUPERIOR | | | | | |
|----------------------------|---------------|-------|------------|--------|-----------|----------|
| | MICHIGAN | | | | | |
| | HAUL SEINES | | POUND NETS | | TRAP NETS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| LAKE HERRING | - | - | 100 | \$7 | - | - |
| LAKE TROUT | - | - | 600 | 347 | - | - |
| PIKE OR PICKEREL | - | - | (1) | 1 | - | - |
| SMELT | - | - | 103,000 | 4,119 | - | - |
| STURGEON | - | - | (1) | 40 | - | - |
| SUCKERS | - | - | 300 | 19 | - | - |
| WHITEFISH: | | | | | | |
| COMMON | - | - | 33,900 | 16,948 | 77,900 | \$38,975 |
| MENOMINEE | 2,100 | \$310 | 100 | 13 | - | - |
| YELLOW PIKE | - | - | 200 | 49 | - | - |
| TOTAL | 2,100 | 310 | 138,200 | 21,543 | 77,900 | 38,975 |

| SPECIES | LAKE SUPERIOR - CONTINUED | | | | | |
|----------------------------|---------------------------|-------|-----------|---------|--------------|-------|
| | MICHIGAN - CONTINUED | | | | | |
| | FYKE AND HOOP NETS | | GILL NETS | | LINES, TROLL | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEMIVES | - | - | 100 | \$1 | - | - |
| BURBOT | (1) | (1) | 500 | 30 | - | - |
| CHUBS | - | - | 407,600 | 64,408 | - | - |
| LAKE HERRING | (1) | \$1 | 7,306,200 | 416,449 | - | - |
| LAKE TROUT | - | - | 217,700 | 126,056 | 100 | \$49 |
| PIKE OR PICKEREL | - | - | 300 | 36 | - | - |
| SAUGER | - | - | 100 | 13 | - | - |
| SMELT | - | - | 23,600 | 943 | - | - |
| STURGEON | - | - | 100 | 54 | - | - |
| SUCKERS | - | - | 21,900 | 1,536 | - | - |
| WHITEFISH: | | | | | | |
| COMMON | (1) | 11 | 136,900 | 68,430 | - | - |
| MENOMINEE | 100 | 13 | 12,600 | 1,865 | - | - |
| YELLOW PERCH | - | - | 4,700 | 650 | 100 | 20 |
| YELLOW PIKE | - | - | 900 | 338 | - | - |
| TOTAL | 100 | 25 | 8,133,200 | 680,809 | 200 | 69 |

| SPECIES | LAKE SUPERIOR - CONTINUED | | | | | |
|--------------------|---------------------------|-------|--------|------------|--------|-----------|
| | MICHIGAN - CONTINUED | | | WISCONSIN | | |
| | TOTAL | | | POUND NETS | | GILL NETS |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEMIVES | 100 | \$1 | - | - | (1) | (1) |
| BURBOT | 500 | 30 | 100 | \$6 | 4,400 | \$221 |

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GREAT LAKES FISHERIES

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CATCH BY LAKE, STATE, AND GEAR, 1961 - Continued

| SPECIES | LAKE SUPERIOR - CONTINUED | | | | | |
|----------------------------|---------------------------|---------|------------|--------|-----------|-----------|
| | MICHIGAN - CONTINUED | | WISCONSIN | | | |
| | TOTAL | | POUND NETS | | GILL NETS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| CARP | - | - | 100 | \$3 | - | - |
| CHUBS | 407,600 | \$6,408 | (1) | 3 | 674,100 | \$117,972 |
| LAKE HERRING | 7,306,300 | 416,457 | 700 | 37 | 2,569,700 | 128,482 |
| LAKE TROUT | 216,400 | 126,452 | 10,700 | 7,156 | 91,900 | 61,565 |
| PIKE OR PICKEREL | 300 | 37 | - | - | (1) | 1 |
| SAUGER | 100 | 13 | - | - | - | - |
| SMELT | 126,600 | 5,062 | 550,300 | 16,510 | 16,200 | 546 |
| STURGEON | 100 | 94 | - | - | - | - |
| SUCKERS | 22,200 | 1,555 | 9,700 | 486 | 14,900 | 745 |
| WHITEFISH: | | | | | | |
| COMMON | 248,700 | 124,364 | 41,500 | 25,752 | 51,900 | 32,154 |
| MENOMINEE | 14,900 | 2,201 | (1) | 1 | 24,900 | 5,476 |
| YELLOW PERCH | 4,800 | 670 | (1) | 1 | 200 | 27 |
| YELLOW PIKE | 1,100 | 367 | - | - | - | - |
| TOTAL | 8,351,700 | 741,731 | 613,100 | 49,995 | 3,450,200 | 347,189 |

| SPECIES | LAKE SUPERIOR - CONTINUED | | | | | |
|----------------------------|---------------------------|---------|------------|----------|-----------|----------|
| | WISCONSIN - CONTINUED | | MINNESOTA | | | |
| | TOTAL | | POUND NETS | | GILL NETS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ALEWIVES | (1) | (1) | - | - | - | - |
| BURBOT | 4,500 | \$227 | - | - | - | - |
| CHUBS | 100 | 3 | - | - | - | - |
| CARP | 674,100 | 117,976 | - | - | 104,400 | \$12,500 |
| LAKE HERRING | 2,570,400 | 128,519 | - | - | 1,560,000 | 79,000 |
| LAKE TROUT | 102,600 | 68,721 | - | - | 1,800 | 640 |
| PIKE OR PICKEREL | (1) | 1 | - | - | - | - |
| SMELT | 566,500 | 17,056 | 644,600 | \$32,000 | - | - |
| SUCKERS | 24,600 | 1,231 | - | - | - | - |
| WHITEFISH: | | | | | | |
| COMMON | 93,400 | 57,906 | - | - | 500 | 250 |
| MENOMINEE | 24,900 | 5,477 | - | - | 2,500 | 250 |
| YELLOW PERCH | 200 | 28 | - | - | - | - |
| TOTAL | 4,063,300 | 397,144 | 644,600 | 32,000 | 1,689,200 | 92,640 |

| SPECIES | LAKE SUPERIOR - CONTINUED | | LAKE OF THE WOODS | | | |
|----------------------------|---------------------------|----------|-------------------|--------|------------|-------|
| | MINNESOTA - CONTINUED | | MINNESOTA | | | |
| | TOTAL | | OTTER TRAWLS | | POUND NETS | |
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BULLHEADS | - | - | (1) | \$1 | 400 | \$33 |
| BURBOT | - | - | 35,100 | 1,053 | 73,000 | 2,168 |
| CHUBS | 104,400 | \$12,500 | - | - | - | - |
| LAKE HERRING | 1,580,000 | 79,000 | - | - | - | - |
| LAKE TROUT | 1,800 | 640 | - | - | 1,500 | 118 |
| PIKE OR PICKEREL | - | - | - | - | - | - |
| QUILLBACK | - | - | 100 | 3 | 5,500 | 546 |
| SAUGER | - | - | - | - | - | - |
| SMELT | 644,600 | 32,000 | - | - | - | - |
| SUCKERS | - | - | 6,800 | 206 | 1,100 | 23 |
| TULLIBEE | - | - | 548,200 | 16,445 | 17,800 | 516 |
| WHITEFISH: | | | | | | |
| COMMON | 500 | 250 | - | - | - | - |
| MENOMINEE | 2,500 | 250 | - | - | 600 | 64 |
| YELLOW PERCH | - | - | 5,700 | 455 | 9,000 | 1,607 |
| YELLOW PIKE | - | - | - | - | - | - |
| TOTAL | 2,333,800 | 124,640 | 595,900 | 18,163 | 106,900 | 5,095 |

| SPECIES | LAKE OF THE WOODS - CONTINUED | | | |
|-----------------------|-------------------------------|-------|--------------------|-------|
| | MINNESOTA - CONTINUED | | | |
| | TRAP NETS | | FYKE AND HOOP NETS | |
| | POUNDS | VALUE | POUNDS | VALUE |
| BUFFALOFISH | 300 | \$18 | - | - |
| BULLHEADS | 900 | 71 | 6,900 | \$522 |
| BURBOT | 242,600 | 7,279 | 100 | 4 |

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GREAT LAKES FISHERIES

CATCH BY LAKE, STATE, AND GEAR, 1961 - Continued

| SPECIES | LAKE OF THE WOODS - CONTINUED | | | |
|-----------------------------|-------------------------------|--------|--------------------|-------|
| | MINNESOTA - CONTINUED | | | |
| | TRAP NETS | | FYKE AND HOOP NETS | |
| | POUNDS | VALUE | POUNDS | VALUE |
| MOONEYE | {1} | \$1 | - | - |
| PIKE OR PICKEREL | 29,300 | 1,602 | 2,800 | \$220 |
| QUILLBACK | {1} | {1} | - | - |
| SAUGER | 47,700 | 4,725 | 100 | 8 |
| SUCKERS | 39,400 | 608 | 600 | 12 |
| TULLIBEE | 221,000 | 6,409 | {1} | {1} |
| WHITEFISH, COMMON | {1} | 3 | - | - |
| YELLOW PERCH | 7,700 | 774 | 1,300 | 126 |
| YELLOW PIKE | 65,600 | 11,752 | 700 | 119 |
| TOTAL | 636,500 | 33,242 | 12,500 | 1,011 |

| SPECIES | LAKE OF THE WOODS - CONTINUED | | | |
|-----------------------------|-------------------------------|--------|-----------|---------|
| | MINNESOTA - CONTINUED | | | |
| | GILL NETS | | TOTAL | |
| | POUNDS | VALUE | POUNDS | VALUE |
| BUFFALOFISH | - | - | 300 | \$18 |
| BULLHEADS | 6,200 | \$471 | 14,400 | 1,098 |
| BURBOT | 46,700 | 1,402 | 397,500 | 11,926 |
| MOONEYE | {1} | {1} | {1} | 1 |
| PIKE OR PICKEREL | 33,500 | 2,849 | 53,100 | 4,589 |
| QUILLBACK | {1} | {1} | 100 | 3 |
| SAUGER | 41,800 | 4,138 | 95,100 | 9,417 |
| SUCKERS | 169,600 | 3,396 | 208,700 | 4,245 |
| TULLIBEE | 1,373,300 | 39,825 | 2,160,300 | 63,195 |
| WHITEFISH, COMMON | {1} | 2 | {1} | 5 |
| YELLOW PERCH | 10,300 | 1,030 | 25,600 | 2,449 |
| YELLOW PIKE | 243,000 | 43,493 | 318,300 | 56,971 |
| TOTAL | 1,924,600 | 96,406 | 3,278,400 | 153,917 |

| SPECIES | NAMAKAN LAKE | | RAINY LAKE | |
|-----------------------------|--------------|-------|------------|---------|
| | MINNESOTA | | MINNESOTA | |
| | GILL NETS | | GILL NETS | |
| | POUNDS | VALUE | POUNDS | VALUE |
| BURBOT | 3,900 | \$100 | 35,800 | \$1,100 |
| PIKE OR PICKEREL | - | - | 10,000 | 500 |
| SAUGER | - | - | {1} | {1} |
| SUCKERS | 3,700 | 100 | 41,100 | 1,200 |
| TULLIBEE | 6,100 | 100 | 29,800 | 600 |
| WHITEFISH, COMMON | 26,000 | 7,300 | 32,100 | 9,000 |
| YELLOW PERCH | - | - | 100 | 10 |
| YELLOW PIKE | - | - | 33,800 | 10,200 |
| TOTAL | 39,700 | 7,600 | 182,700 | 22,910 |

1/ LESS THAN 50 POUNDS OR 50 CENTS.

2/ THE POUNDAGE AND VALUE OF THE CATCH OF CHUBS BY OTTER TRAWLS IN THE MICHIGAN AND WISCONSIN WATERS OF LAKE MICHIGAN INCLUDE 5,755,000 POUNDS, VALUED AT \$170,274 TAKEN FOR ANIMAL FOOD.



SECTION 9 - MISSISSIPPI RIVER FISHERIES

Due to budgetary limitations, it was not possible to conduct a complete general canvass of the Mississippi River and its tributaries for 1961 data. The most recent complete survey of catch and operating unit data is for 1960. Surveys of the volume and value of the catch were conducted for the following States in 1961: Alabama, Illinois, Iowa, Louisiana, Minnesota, Montana, Tennessee, Wisconsin, and Wyoming. For the remainder of the States, 1960 data have been used. States for which 1960 figures are shown are Arkansas, Indiana, Kansas, Kentucky, Mississippi, Missouri, Nebraska, North Dakota, Oklahoma, South Dakota, and Texas. All operating unit data appearing in this Section are for the year 1960.

Wisconsin was the only State in which a 1961 survey was made that showed a gain in catch over the previous year. In all other States the catch declined.

The Bureau acknowledges the assistance of the following organizations in the collection of data appearing in this section: Alabama Department of Conservation, Division of Game and Fish, Arkansas Game and Fish Commission; Illinois Department of Conservation; Indiana Department of Conservation; Iowa State Conservation Commission; Kansas Forestry, Fish and Game Commission; Kentucky Department of Fish and Wildlife Resources; Louisiana Wild Life and Fisheries Commission; Missouri State Conservation Commission; Montana State Fish and Game Commission; Nebraska Game, Forestation, and Parks Commission; North Dakota State Game and Fish Department; Oklahoma Game and Fish Department; South Dakota Department of Game, Fish and Parks; Tennessee Game and Fish Commission; Texas Game and Fish Commission; Wisconsin Conservation Department; Wyoming Game and Fish Commission; and the Tennessee Valley Authority, Fish and Game Branch.

SUMMARY OF CATCH, VARIOUS YEARS

SECTIONAL SUMMARIES

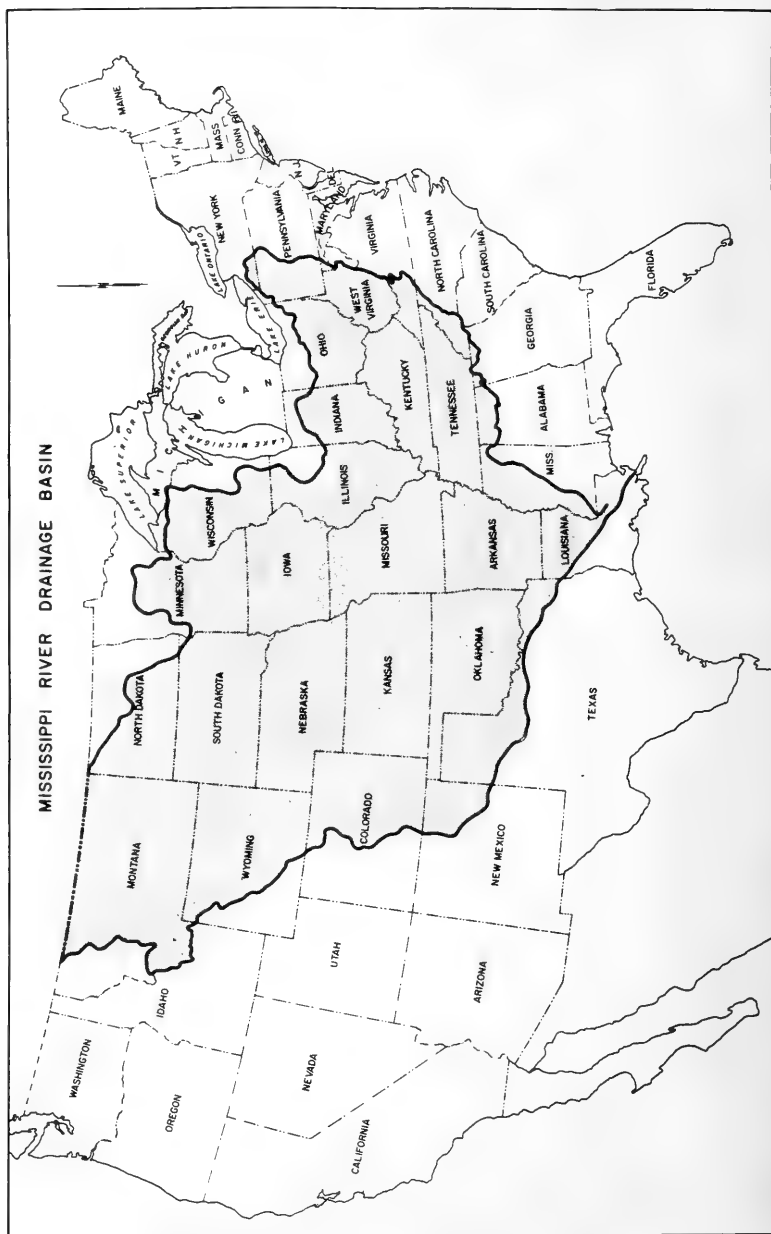
(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| STATE | YEAR | FISH | | SHELLFISH, ETC. | | TOTAL, VARIOUS YEARS | |
|--------------------------|------|----------|-------|-----------------|-------|-------------------------|-------|
| | | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| ALABAMA | 1961 | 2,025 | 368 | 9,336 | 601 | 11,362 | 969 |
| ARKANSAS | 1960 | 5,399 | 657 | - | 46 | 6,036 | 733 |
| ILLINOIS | 1961 | 6,074 | 594 | 109 | 5 | 6,183 | 599 |
| INDIANA | 1960 | 108 | 15 | 900 | 36 | 1,008 | 51 |
| IOWA | 1961 | 3,179 | 296 | (1) | (1) | 3,179 | 296 |
| KANSAS | 1960 | 60 | 8 | - | - | 60 | 8 |
| KENTUCKY | 1960 | 2,104 | 277 | 1,356 | 54 | 3,460 | 331 |
| LOUISIANA | 1961 | 6,544 | 942 | 1,510 | 401 | 8,054 | 1,343 |
| MINNESOTA | 1961 | 9,518 | 439 | (1) | (1) | 9,518 | 439 |
| MISSISSIPPI | 1960 | 2,185 | 309 | 9 | 19 | 2,194 | 328 |
| MISSOURI | 1961 | 372 | 33 | 2 | (1) | 374 | 33 |
| MONTANA | 1961 | 17 | 1 | - | - | 17 | 1 |
| NEBRASKA | 1960 | 541 | 39 | - | - | 541 | 39 |
| NORTH CAROLINA | 1960 | 827 | 35 | - | - | 827 | 35 |
| OKLAHOMA | 1960 | 334 | 42 | - | - | 334 | 42 |
| SOUTH DAKOTA | 1960 | 2,202 | 140 | - | - | 2,202 | 140 |
| TENNESSEE | 1961 | 5,045 | 745 | 4,236 | 253 | 9,281 | 998 |
| TEXAS | 1960 | 709 | 91 | 12 | 1 | 721 | 92 |
| WISCONSIN | 1961 | 10,248 | 503 | 5 | - | 10,253 | 504 |
| WYOMING | 1961 | 378 | 11 | - | - | 378 | 11 |
| TOTAL, VARIOUS YEARS | | 57,870 | 5,575 | 18,112 | 1,417 | 75,982 | 6,992 |

1/ LESS THAN 500 POUNDS OR \$500.

NOTE:--ADDITIONAL 1961 CATCH STATISTICS FOR INLAND WATERS NOT INCLUDED IN THIS TABULATION WERE: ARIZONA, BUFFALO FISH 37,600 POUNDS, VALUED AT \$5,700; COLORADO, CARP 47,500 POUNDS, VALUED AT \$1,825; BULLHEADS, 4,500 POUNDS VALUED AT \$600; SUCKERS, 4,000 POUNDS, VALUED AT \$150; UTAH, CARP 632,400 POUNDS VALUED AT \$16,971.

MISSISSIPPI RIVER FISHERIES



MISSISSIPPI RIVER FISHERIES

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SUMMARY OF OPERATING UNITS, 1960

| ITEM | ALABAMA | ARKANSAS | ILLINOIS | INDIANA | IOWA |
|---|---------|----------|-----------|-----------|-------------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN, ON BOATS AND SHORE: | | | | | |
| REGULAR | 265 | 615 | 181 | - | 152 |
| CASUAL | 344 | 1,047 | 473 | 113 | 529 |
| TOTAL | 629 | 1,662 | 654 | 113 | 681 |
| BOATS: | | | | | |
| MOTOR | 480 | 1,429 | 472 | 109 | 580 |
| OTHER | 134 | 79 | 89 | - | 36 |
| GEAR: | | | | | |
| HAUL SEINES, COMMON | - | 17 | 57 | 28 | 43 |
| LENGTH, YARDS | - | 3,800 | 16,050 | 3,200 | 10,500 |
| WEIRS | - | - | - | - | 8 |
| POUND NETS | - | - | - | - | 40 |
| HOOP NETS | 1,860 | 7,700 | - | - | 2,972 |
| FYKE NETS | - | 160 | 6,312 | 165 | 730 |
| POTS AND TRAPS, FISH | - | - | 2,908 | - | 4,062 |
| GILL NETS, ANCHOR, SET OR STAKE | 34 | 407 | 30 | - | 424 |
| SQUARE YARDS | 8,500 | 80,500 | 6,000 | - | 32,600 |
| TRAMMEL NETS | 60 | 282 | 385 | - | 240 |
| SQUARE YARDS | 18,000 | 62,800 | 77,600 | - | 47,000 |
| LINES: | | | | | |
| LONG OR SET WITH HOOKS | 3,225 | 4,530 | 549 | 135 | 1,635 |
| HOOKS | 322,500 | 326,500 | 49,700 | 10,000 | 159,750 |
| SNAG | 1,140 | 1,350 | 135 | - | - |
| HOOKS | 522,000 | 577,600 | 40,000 | - | - |
| DIP NETS, COMMON | - | 156 | - | - | - |
| CROWFOOT BARS | 368 | 87 | 64 | 50 | - |
| ITEM | KANSAS | KENTUCKY | LOUISIANA | MINNESOTA | MISSISSIPPI |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN, ON BOATS AND SHORE: | | | | | |
| REGULAR | 4 | 70 | 643 | 285 | 155 |
| CASUAL | 66 | 1,260 | 882 | 369 | 308 |
| TOTAL | 70 | 1,330 | 1,525 | 654 | 463 |
| BOATS: | | | | | |
| MOTOR | 66 | 1,315 | 1,512 | 281 | 357 |
| OTHER | - | 85 | - | 29 | 5 |
| GEAR: | | | | | |
| HAUL SEINES, COMMON | 5 | 20 | 2 | 29 | - |
| LENGTH, YARDS | 375 | 2,400 | 2,000 | 19,000 | - |
| WEIRS | - | - | - | 77 | - |
| HOOP NETS | - | - | 16,509 | - | 3,475 |
| FYKE NETS | 128 | 2,995 | - | 2,151 | - |
| POTS AND TRAPS, CRAWFISH | - | - | 14,435 | - | - |
| GILL NETS, ANCHOR, SET OR STAKE | - | - | 3,803 | 296 | 414 |
| SQUARE YARDS | - | - | 464,203 | 405,000 | 165,400 |
| TRAMMEL NETS | 37 | 30 | 1,600 | - | 72 |
| SQUARE YARDS | 10,640 | 10,000 | 142,621 | - | 24,400 |
| LINES: | | | | | |
| HAND | - | - | 33 | - | - |
| HOOKS | - | - | 33 | - | - |
| LONG OR SET WITH HOOKS | 127 | 1,915 | 3,654 | 75 | 1,655 |
| HOOKS | 1,536 | 121,000 | 344,160 | 7,500 | 546,150 |
| SNAG | - | 1,208 | - | - | 474 |
| HOOKS | - | 235,660 | - | - | 706,500 |
| DIP NETS, COMMON | - | - | 279 | - | 66 |
| CROWFOOT BARS | - | 160 | - | - | - |
| GRABS, FROG | - | - | 174 | - | - |

(CONTINUED ON NEXT PAGE)

MISSISSIPPI RIVER FISHERIES

SUMMARY OF OPERATING UNITS, 1960 - Continued

| ITEM | MISSOURI | MONTANA | NEBRASKA | NORTH DAKOTA | OKLAHOMA |
|---|----------|---------|----------|--------------|----------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN, ON BOATS AND SHORE: | | | | | |
| REGULAR | 40 | - | 22 | 8 | 33 |
| CASUAL | 270 | 3 | 220 | 12 | 17 |
| TOTAL | 310 | 3 | 242 | 20 | 50 |
| BOATS: | | | | | |
| MOTOR | 310 | 2 | 227 | 5 | 50 |
| OTHER | - | 2 | 15 | - | - |
| GEAR: | | | | | |
| HAUL SEINES, COMMON | - | - | 31 | - | - |
| LENGTH, YARDS | - | - | 4,000 | - | - |
| POUND NETS | - | 24 | - | 12 | - |
| HOOP NETS | - | - | 1,348 | - | - |
| FYKE NETS | 1,272 | - | 60 | 210 | - |
| POTS AND TRAPS, FISH | - | - | 374 | - | - |
| GILL NETS, ANCHOR, SET OR STAKE | - | - | - | - | 107 |
| SQUARE YARDS | - | - | - | - | 50,750 |
| TRAMMEL NETS | 159 | - | 183 | - | 26 |
| SQUARE YARDS | 21,240 | - | 29,260 | - | 6,500 |
| LINES, LONG OR SET WITH HOOKS | 221 | - | - | - | - |
| HOOKS | 22,100 | - | - | - | - |

| ITEM | SOUTH DAKOTA | TENNESSEE | TEXAS | WISCONSIN | WYOMING | TOTAL |
|---|--------------|-----------|--------|-----------|---------|-----------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN, ON BOATS AND SHORE: | | | | | | |
| REGULAR | 2 | 654 | 63 | 69 | 3 | 3,284 |
| CASUAL | 31 | 692 | 201 | 489 | 2 | 7,328 |
| TOTAL | 33 | 1,346 | 264 | 558 | 5 | 10,612 |
| BOATS: | | | | | | |
| MOTOR | 15 | 892 | 249 | 310 | 2 | 8,663 |
| OTHER | 5 | 333 | - | 39 | 1 | 852 |
| GEAR: | | | | | | |
| HAUL SEINES, COMMON | 5 | - | - | 39 | 1 | 277 |
| LENGTH, YARDS | 5,000 | - | - | 29,000 | 1,000 | 96,325 |
| OTTER TRAWLS, FISH | - | - | - | 3 | - | 3 |
| YARDS AT MOUTH | - | - | - | 10 | - | 10 |
| WEIRS | - | - | - | - | - | 85 |
| POUND NETS | - | - | - | - | - | 76 |
| TRAP NETS | - | - | - | 97 | - | 97 |
| HOOP NETS | - | 4,456 | 305 | - | - | 38,625 |
| FYKE NETS | 200 | 1,110 | - | 599 | - | 16,112 |
| POTS AND TRAPS: | | | | | | |
| CRAWFISH | - | - | - | - | - | 14,435 |
| FISH | - | - | - | 1,308 | - | 8,652 |
| GILL NETS, ANCHOR, SET OR STAKE | 13 | 151 | 360 | 129 | - | 6,168 |
| SQUARE YARDS | 6,600 | 55,632 | 40,000 | 115,200 | - | 1,433,385 |
| TRAMMEL NETS | - | 367 | 70 | 7 | - | 3,518 |
| SQUARE YARDS | - | 145,600 | 8,000 | 1,000 | - | 604,661 |
| LINES: | | | | | | |
| HAND | - | - | - | - | - | 33 |
| HOOKS | - | - | - | - | - | 33 |
| LONG OR SET WITH HOOKS | - | 4,154 | 650 | 650 | - | 23,175 |
| HOOKS | - | 377,750 | 45,500 | 65,000 | - | 2,399,146 |
| SNAG | - | 1,478 | - | - | - | 5,785 |
| HOOKS | - | 693,400 | - | - | - | 2,775,160 |
| DIP NETS, COMMON | - | 175 | - | - | - | 676 |
| CROWFOOT BARS | - | 563 | - | - | - | 1,312 |
| GRABS, FROG | - | - | - | - | - | 174 |

MISSISSIPPI RIVER FISHERIES

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CATCH BY STATES, VARIOUS YEARS

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | ALABAMA | | ARKANSAS | | ILLINOIS | |
|--------------------------------|----------|-------|----------|-------|----------|-------|
| | 1961 | | 1960 | | 1961 | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH | | | | | | |
| BOWFIN | - | - | 15 | 1 | 7 | (1) |
| BUFFALOFISH | 532 | 64 | 3,004 | 371 | 1,990 | 199 |
| BULLHEADS | - | - | 11 | 2 | 62 | 11 |
| CARP | 256 | 13 | 940 | 43 | 2,710 | 133 |
| CATFISH | 1,080 | 270 | 922 | 230 | 764 | 197 |
| CRAPPIE | - | - | - | - | 61 | 11 |
| EELS, COMMON | - | - | - | - | (1) | (1) |
| GARFISH | - | - | 94 | 5 | (1) | (1) |
| PADDLEFISH | 104 | 16 | 20 | 2 | 1 | (1) |
| QUILLBACK | 1 | (1) | 24 | 2 | 38 | 4 |
| SHEEPSHEAD | 52 | 5 | 357 | 29 | 422 | (1) |
| STURGEON, SHOVELNOSE | 1 | (1) | 12 | 2 | 12 | 37 |
| SUCKERS | - | - | (1) | (1) | 5 | (1) |
| TOTAL FISH | 2,026 | 368 | 5,399 | 687 | 6,074 | 594 |
| SHELLFISH, ETC. | | | | | | |
| MUSSEL SHELLS | 9,336 | 572 | 595 | 10 | 100 | 3 |
| PEARLS AND SLUGS | - | 29 | - | 2 | - | - |
| TURTLES: | | | | | | |
| BABY | - | - | 4 | 32 | - | - |
| SLIDER | - | - | 10 | (1) | - | - |
| SNAPPER | - | - | 25 | 2 | 9 | 2 |
| SOFT-SHELL | - | - | 3 | (1) | - | - |
| TOTAL SHELLFISH, ETC. | 9,336 | 601 | 637 | 46 | 109 | 5 |
| GRAND TOTAL | 11,362 | 969 | 6,036 | 733 | 6,183 | 599 |

| SPECIES | INDIANA | | IOWA | | KANSAS | |
|--------------------------------|----------|-------|----------|-------|----------|-------|
| | 1960 | | 1961 | | 1960 | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH | | | | | | |
| BOWFIN | - | - | (1) | (1) | - | - |
| BUFFALOFISH | 20 | 2 | 973 | 95 | 8 | 2 |
| BULLHEADS | - | - | 32 | 7 | - | - |
| CARP | 35 | 1 | 1,269 | 54 | 42 | 4 |
| CATFISH | 36 | 10 | 413 | 103 | 5 | 2 |
| EELS, COMMON | - | - | (1) | (1) | - | - |
| GARFISH | - | - | (1) | (1) | - | - |
| PADDLEFISH | 2 | 1 | 13 | 1 | 1 | (1) |
| QUILLBACK | 2 | (1) | 1 | (1) | 3 | (1) |
| SHEEPSHEAD | 12 | 1 | 438 | 33 | - | - |
| STURGEON, SHOVELNOSE | - | - | 13 | 2 | - | - |
| SUCKERS | 1 | (1) | 27 | 1 | 1 | (1) |
| TOTAL FISH | 108 | 15 | 3,179 | 296 | 60 | 8 |
| SHELLFISH, ETC. | | | | | | |
| MUSSEL SHELLS | 900 | 31 | - | - | - | - |
| PEARLS AND SLUGS | - | 5 | - | - | - | - |
| TURTLES, SNAPPER | - | - | (1) | (1) | - | - |
| TOTAL SHELLFISH, ETC. | 900 | 36 | (1) | (1) | - | - |
| GRAND TOTAL | 1,008 | 51 | 3,179 | 296 | 60 | 8 |

| SPECIES | KENTUCKY | | LOUISIANA | | MINNESOTA | |
|----------------------------|----------|-------|-----------|-------|-----------|-------|
| | 1960 | | 1961 | | 1961 | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH | | | | | | |
| BOWFIN | - | - | 26 | 1 | 2 | (1) |
| BUFFALOFISH | 397 | 56 | 2,201 | 305 | 640 | 66 |
| BULLHEADS | - | - | - | - | 2,081 | 141 |
| BURBOT | - | - | - | - | 7 | (1) |
| CARP | 368 | 18 | 262 | 13 | 4,987 | 76 |
| CATFISH | 605 | 151 | 2,613 | 505 | 35 | 9 |
| GARFISH | - | - | 678 | 34 | 3 | (1) |
| MOONEYE | - | - | - | - | 11 | 1 |
| PADDLEFISH | 117 | 12 | 39 | 2 | - | - |
| PIKE OR PICKEREL | - | - | - | - | 6 | (1) |
| QUILLBACK | 29 | 1 | - | - | 2 | (1) |
| SHEEPSHEAD | 507 | 35 | 725 | 82 | 810 | 24 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MISSISSIPPI RIVER FISHERIES

CATCH BY STATES, VARIOUS YEARS - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | KENTUCKY | | LOUISIANA | | MINNESOTA | |
|--------------------------------|--------------|-------|--------------|-------|-----------|-------|
| | 1960 | | 1961 | | 1961 | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH - CONTINUED | | | | | | |
| SMELT | - | - | - | - | 1 | (1) |
| STURGEON, SHOVELNOSE | 7 | 1 | - | - | - | - |
| SUCKERS | 74 | 3 | - | - | 22 | 4 |
| WHITEFISH, COMMON | - | - | - | - | 32 | 2 |
| YELLOW PERCH | - | - | - | - | 212 | 20 |
| YELLOW PIKE | - | - | - | - | 667 | 96 |
| TOTAL FISH | 2,104 | 277 | 6,544 | 942 | 9,518 | 439 |
| SHELLFISH, ETC. | | | | | | |
| CRAWFISH | - | - | 1,168 | 140 | - | - |
| MUSSEL SHELLS | 1,356 | 50 | - | - | - | - |
| PEARLS AND SLUGS | - | 4 | - | - | - | - |
| TURTLES: | | | | | | |
| BABY | - | - | 27 | 203 | - | - |
| SNAPPER | - | - | 227 | 27 | (1) | (1) |
| FROGS | - | - | 68 | 31 | - | - |
| TOTAL SHELLFISH, ETC. | 1,356 | 54 | 1,510 | 401 | (1) | (1) |
| GRAND TOTAL | 3,460 | 331 | 8,054 | 1,343 | 9,518 | 439 |
| SPECIES | MISSISSIPPI | | MISSOURI | | MONTANA | |
| | 1960 | | 1961 | | 1961 | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH | | | | | | |
| BOWFIN | - | - | 2 | (1) | - | - |
| BUFFALOFISH | 1,237 | 148 | 100 | 7 | 16 | 1 |
| BULLHEADS | 11 | 2 | 1 | (1) | - | - |
| CARP | 269 | 12 | 156 | 15 | - | - |
| CATFISH | 569 | 142 | 50 | 6 | 1 | (1) |
| EELS, COMMON | - | - | (1) | (1) | - | - |
| GARFISH | 15 | (1) | 8 | (1) | - | - |
| PADDOLEFISH | 9 | 1 | 9 | 1 | - | - |
| QUILLBACK | (1) | (1) | 11 | 1 | - | - |
| SHEEPSHEAD | 55 | 4 | 29 | 2 | - | - |
| STURGEON, SHOVELNOSE | - | - | 4 | 1 | - | - |
| SUCKERS | - | - | 2 | (1) | - | - |
| TOTAL FISH | 2,185 | 309 | 372 | 33 | 17 | 1 |
| SHELLFISH, ETC. | | | | | | |
| TURTLES: | | | | | | |
| BABY | 3 | 18 | - | - | - | - |
| SNAPPER | 5 | 1 | - | (1) | - | - |
| SOFT-SHELL | 1 | (1) | 2 | (1) | - | - |
| TOTAL SHELLFISH, ETC. | 9 | 19 | 2 | (1) | - | - |
| GRAND TOTAL | 2,194 | 328 | 374 | 33 | 17 | 1 |
| SPECIES | NEBRASKA | | NORTH DAKOTA | | OKLAHOMA | |
| | 1960 | | 1960 | | 1960 | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH | | | | | | |
| BUFFALOFISH | 10 | 2 | 100 | 6 | 112 | 13 |
| BULLHEADS | 63 | 2 | 410 | 25 | - | - |
| CARP | 396 | 25 | - | - | 110 | 6 |
| CATFISH | 26 | 10 | - | - | 55 | 14 |
| PADDOLEFISH | - | - | - | - | 6 | 1 |
| QUILLBACK | 24 | (1) | - | - | 6 | (1) |
| SHEEPSHEAD | - | - | - | - | 18 | 3 |
| SUCKERS | - | - | 317 | 4 | - | - |
| WHITE BASS | - | - | - | - | 27 | 5 |
| TOTAL FISH | 541 | 39 | 827 | 35 | 334 | 42 |
| GRAND TOTAL | 541 | 39 | 827 | 35 | 334 | 42 |
| SPECIES | SOUTH DAKOTA | | TENNESSEE | | TEXAS | |
| | 1960 | | 1961 | | 1960 | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH | | | | | | |
| BOWFIN | - | - | 6 | (1) | - | - |
| BUFFALOFISH | 697 | 97 | 1,454 | 160 | 400 | 56 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MISSISSIPPI RIVER FISHERIES

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CATCH BY STATES, VARIOUS YEARS - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | SOUTH DAKOTA | | TENNESSEE | | TEXAS | |
|-------------------------------|--------------|-------|-----------|-------|----------|-------|
| | 1960 | | 1961 | | 1960 | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH - CONTINUED | | | | | | |
| BULLHEADS | 81 | 2 | 8 | 2 | 6 | 1 |
| CARP | 1,156 | 35 | 1,079 | 53 | 177 | 7 |
| CATFISH | - | - | 1,694 | 466 | 93 | 25 |
| GARFISH | - | - | 7 | (1) | 11 | 1 |
| PADDFISH | 50 | 5 | 335 | 50 | - | - |
| QUILLBACK | - | - | 172 | 5 | 5 | (1) |
| SHEEPSHEAD | - | - | 84 | 8 | 9 | 1 |
| SUCKERS | 18 | 1 | 1 | (1) | 8 | (1) |
| YELLOW BASS | - | - | 5 | 1 | - | - |
| TOTAL FISH | 2,202 | 140 | 5,045 | 745 | 709 | 91 |
| SHELLFISH, ETC. | | | | | | |
| MUSSEL SHELLS | - | - | 4,232 | 236 | - | - |
| PEARLS AND SLUGS | - | - | - | 15 | - | - |
| TURTLES: | | | | | | |
| SLIDER | - | - | - | - | 9 | (1) |
| SNAPPER | - | - | 4 | (1) | 3 | 1 |
| TOTAL SHELLFISH, ETC. | - | - | 4,236 | 253 | 12 | 1 |
| GRAND TOTAL | 2,202 | 140 | 9,281 | 998 | 721 | 92 |

| SPECIES | WISCONSIN | | WYOMING | | TOTAL, VARIOUS YEARS | |
|--------------------------------|-----------|-------|----------|-------|-------------------------|-------|
| | 1961 | | 1961 | | 1961 | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| FISH | | | | | | |
| BOWFIN | 13 | (1) | - | - | 71 | 2 |
| BUFFALOFISH | 905 | 90 | - | - | 14,996 | 1,740 |
| BULLHEADS | 211 | 15 | - | - | 2,997 | 210 |
| BURBOT | 56 | 1 | - | - | 63 | 1 |
| CARP | 5,854 | 220 | 378 | 11 | 20,466 | 730 |
| CATFISH | 467 | 69 | - | - | 9,628 | 2,238 |
| CRAPPIE | - | - | - | - | 61 | 11 |
| EELS, COMMON | (1) | (1) | - | - | (1) | (1) |
| GARFISH | 9 | (1) | - | - | 826 | 40 |
| MOONEYE | 6 | (1) | - | - | 17 | 1 |
| PADDFISH | - | - | - | - | 743 | 96 |
| PIKE OR PICKEREL | - | - | - | - | 6 | (1) |
| QUILLBACK | 18 | (1) | - | - | 300 | 9 |
| SHEEPSHEAD | 2,601 | 85 | - | - | 6,119 | 349 |
| SHELL | - | - | - | - | 1 | (1) |
| STURGEON, SHOVELNOSE | 3 | 1 | - | - | 53 | 9 |
| SUCKERS | 105 | 2 | - | - | 590 | 13 |
| WHITE BASS | - | - | - | - | 27 | 5 |
| WHITEFISH, COMMON | - | - | - | - | 22 | 4 |
| YELLOW BASS | - | - | - | - | 5 | 1 |
| YELLOW PERCH | - | - | - | - | 212 | 20 |
| YELLOW PIKE | - | - | - | - | 667 | 96 |
| TOTAL FISH | 10,248 | 503 | 378 | 11 | 57,870 | 5,575 |
| SHELLFISH, ETC. | | | | | | |
| CRAWFISH | - | - | - | - | 1,168 | 140 |
| MUSSEL SHELLS | - | - | - | - | 16,519 | 904 |
| PEARLS AND SLUGS | - | - | - | - | - | 55 |
| TURTLES: | | | | | | |
| BABY | - | - | - | - | 34 | 253 |
| SLIDER | - | - | - | - | 19 | (1) |
| SNAPPER | 5 | 1 | - | - | 260 | 34 |
| SOFT-SHELL | - | - | - | - | 4 | (1) |
| FROGS | - | - | - | - | 88 | 31 |
| TOTAL SHELLFISH, ETC. | 5 | 1 | - | - | 18,112 | 1,417 |
| GRAND TOTAL | 10,253 | 504 | 378 | 11 | 75,982 | 6,992 |

1/ LESS THAN 500 POUNDS OR \$500.

NOTE:--CATCH STATISTICS ON THE RED LAKE ARE INCLUDED IN THIS TABULATION, ALTHOUGH IT IS NOT IN THE MISSISSIPPI DRAINAGE SYSTEM.

MISSISSIPPI RIVER FISHERIES

WHOLESALE AND MANUFACTURING, VARIOUS YEARS

| ITEM | ALA- BAMA | ARKAN- SAS | ILLI- NOIS | INDI- ANA | IOWA | KANSAS | KEN- TUCKY | LOUIS- IANA | MINNE- SOTA | MISSIS- SIPPI |
|--|--------------|---------------|---------------|--------------|--------|--------|---------------|----------------|----------------|------------------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| WHOLESALE AND MANUFACTURING: ESTABLISHMENTS | 13 | 36 | 97 | 8 | 32 | 3 | 26 | 19 | 22 | 19 |
| PERSONS ENGAGED: AVERAGE FOR SEASON | 100 | 102 | 319 | 48 | 723 | 22 | 116 | 155 | 194 | 31 |
| AVERAGE FOR YEAR | 42 | 63 | 203 | 48 | 234 | 22 | 63 | 103 | 117 | 20 |

| ITEM | MISS- SOURI | NE- BRASKA | NORTH DAKOTA | OHIO | OKLA- HOMA | SOUTH DAKOTA | TEN- NESSEE | TEXAS | WIS- CONSIN | TOTAL |
|--|----------------|---------------|-----------------|--------|---------------|-----------------|----------------|--------|----------------|--------|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| WHOLESALE AND MANUFACTURING: ESTABLISHMENTS | 41 | 6 | 3 | 1 | 19 | 2 | 41 | 14 | 39 | 443 |
| PERSONS ENGAGED: AVERAGE FOR SEASON | 429 | 43 | 24 | 7 | 68 | 4 | 192 | 128 | 303 | 3,008 |
| AVERAGE FOR YEAR | 296 | 41 | 16 | 1 | 57 | 4 | 117 | 110 | 123 | 1,704 |

NOTE:--DATA FOR ILLINOIS, INDIANA, IOWA, KANSAS, KENTUCKY, MINNESOTA, MISSOURI, NEBRASKA, NORTH DAKOTA, SOUTH DAKOTA, AND WISCONSIN ARE FOR 1959. DATA FOR ALABAMA, ARKANSAS, MISSISSIPPI, OHIO, OKLAHOMA, TENNESSEE, AND TEXAS ARE FOR 1960. DATA FOR LOUISIANA ARE FOR 1961.

MANUFACTURED FISHERY PRODUCTS, 1961 ^{1/}

| ITEM | STATE AND NUMBER OF PLANTS | UNIT | QUANTITY | VALUE |
|--|--|--------|-----------|-------------|
| FROZEN PACKAGED FISH (FILLETS, PORTIONS, AND STICKS, NOT BREADED AND BREADED) | KENTUCKY (2), MISSOURI (2). | POUNDS | 9,661,009 | \$3,947,691 |
| CURED FISH: SALTED AND LUTEFISK | MINNESOTA (3), MISSOURI (1) IOWA (1), MINNESOTA (2), MISSOURI (1), NEBRASKA (2), NORTH DAKOTA (1) | DO | 2,680,038 | 997,732 |
| SMOKED | | DO | 519,529 | 315,375 |
| OTHER PRODUCTS (CANNED WHITEFISH, CAVIAR AND TURTLE SOUP; AND MUSSEL-SHELL PRODUCTS) | ILLINOIS (1), IOWA (7), OHIO (1), WISCONSIN (1) | - | - | 860,792 |
| TOTAL | | - | - | 6,121,590 |

^{1/} DATA ON THE PRODUCTION OF FROZEN BREADED FILLETS AND CURED FISH ARE FOR 1960.

NOTE:--SOME OF THE ABOVE PRODUCTS MAY HAVE BEEN MANUFACTURED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR A FOREIGN COUNTRY; THEREFORE, THEY CANNOT BE CORRELATED DIRECTLY WITH THE CATCH WITHIN THE STATE.

VALUE OF MANUFACTURED PRODUCTS, 1961

(THOUSANDS OF DOLLARS)

| STATE | VALUE |
|---|-------|
| IOWA | 845 |
| ILLINOIS AND KENTUCKY | 408 |
| MINNESOTA | 1,001 |
| MISSOURI | 3,757 |
| NEBRASKA, NORTH DAKOTA, OHIO, AND WISCONSIN | 111 |
| TOTAL | 6,122 |

MISSISSIPPI RIVER FISHERIES

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ALABAMA

CATCH BY WATERS, 1961

| SPECIES | TENNESSEE RIVER | |
|--------------------------------|-----------------|----------|
| | POUNDS | VALUE |
| BUFFALOFISH | 532,000 | \$63,837 |
| CARP | 255,700 | 12,784 |
| CATFISH | 1,080,400 | 270,098 |
| PADDLEFISH | 104,200 | 15,632 |
| QUILLBACK | 900 | 27 |
| SHEEPSHEAD | 51,600 | 5,161 |
| STURGEON, SHOVELNOSE | 1,500 | 300 |
| MUSSEL SHELLS | 9,336,000 | 571,892 |
| PEARLS AND SLUGS | - | 29,556 |
| TOTAL | 11,362,300 | 969,287 |

ILLINOIS

CATCH BY WATERS, 1961

| SPECIES | MISSISSIPPI RIVER AND TRIBUTARIES | | ILLINOIS RIVER AND TRIBUTARIES | | WABASH RIVER AND TRIBUTARIES | |
|--------------------------------|--------------------------------------|---------|-----------------------------------|---------|---------------------------------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BOWFIN | 600 | \$20 | 6,600 | \$277 | - | - |
| BUFFALOFISH | 910,200 | 96,484 | 921,000 | 82,520 | 20,000 | \$2,684 |
| BULLHEADS | 10,000 | 2,115 | 49,600 | 8,621 | - | - |
| CARP | 1,262,300 | 64,503 | 1,072,200 | 50,605 | 55,900 | 5,587 |
| CATFISH | 570,300 | 142,168 | 87,500 | 21,869 | 14,700 | 3,664 |
| CRAPPIE | 30,100 | 6,265 | 31,000 | 5,206 | - | - |
| EELS, COMMON | 100 | 28 | - | - | - | - |
| GARFISH | 400 | 8 | 400 | 18 | - | - |
| PADDLEFISH | 31,500 | 3,551 | 500 | 80 | 500 | 125 |
| SHEEPSHEAD | 350,400 | 30,268 | 46,300 | 3,714 | 3,800 | 502 |
| STURGEON, SHOVELNOSE | 5,400 | 1,062 | - | - | 1,300 | 320 |
| SUCKERS | 3,800 | - | - | - | - | 26 |
| MUSSEL SHELLS | - | 126 | - | - | 100,000 | 3,250 |
| TURTLES, SNAPPER | 3,800 | 538 | 2,600 | 403 | - | - |
| TOTAL | 3,178,900 | 347,136 | 2,217,700 | 173,313 | 196,400 | 16,158 |

| SPECIES | OHIO RIVER ^{1/} | | INLAND LAKES AND STREAMS | | TOTAL | |
|--------------------------------|--------------------------|----------|-----------------------------|---------|-----------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BOWFIN | - | - | - | - | 7,200 | \$297 |
| BUFFALOFISH | 93,000 | \$10,230 | 45,700 | \$6,707 | 1,989,900 | 198,625 |
| BULLHEADS | - | - | 2,000 | 200 | 61,600 | 10,936 |
| CARP | 138,000 | 5,520 | 182,200 | 6,249 | 2,710,600 | 132,464 |
| CATFISH | 91,000 | 28,750 | - | - | 763,500 | 196,451 |
| CRAPPIE | - | - | - | - | 61,100 | 11,471 |
| EELS, COMMON | - | - | - | - | 100 | 28 |
| GARFISH | - | - | - | - | 800 | 26 |
| PADDLEFISH | 6,000 | 600 | - | - | 38,500 | 4,356 |
| QUILLBACK | 2,000 | 60 | - | - | 2,000 | 60 |
| SHEEPSHEAD | 21,000 | 2,100 | 500 | 90 | 422,000 | 36,674 |
| STURGEON, SHOVELNOSE | 5,000 | 1,000 | - | - | 11,700 | 2,382 |
| SUCKERS | 1,000 | 30 | - | - | 5,000 | 182 |
| MUSSEL SHELLS | - | - | - | - | 100,000 | 3,250 |
| TURTLES, SNAPPER | - | - | 3,000 | 540 | 9,400 | 1,481 |
| TOTAL | 357,000 | 48,290 | 233,400 | 13,786 | 6,183,400 | 598,683 |

^{1/} DATA ARE FOR 1960.

MISSISSIPPI RIVER FISHERIES

IOWA

CATCH BY WATERS, 1961

| SPECIES | MISSISSIPPI RIVER AND TRIBUTARIES | | MISSOURI RIVER | | INLAND LAKES AND STREAMS | | TOTAL | |
|--------------------------------|--------------------------------------|---------|----------------|---------|-----------------------------|---------|-----------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BOWFIN | 400 | \$19 | - | - | - | - | 400 | \$19 |
| BUFFALOFISH | 903,700 | 90,367 | 24,500 | \$2,447 | 44,600 | \$2,444 | 972,800 | 95,258 |
| BULLHEADS | 31,600 | 6,640 | 500 | 38 | - | - | 32,100 | 6,678 |
| CARP | 940,900 | 47,045 | 107,200 | 4,289 | 221,000 | 2,294 | 1,269,100 | 53,628 |
| CATFISH | 366,900 | 91,704 | 46,200 | 11,078 | - | - | 413,100 | 102,782 |
| EELS, COMMON | 400 | 53 | - | - | - | - | 400 | 53 |
| GARFISH | 400 | 19 | - | - | - | - | 400 | 19 |
| PADDOLEFISH | 8,800 | 1,138 | 3,700 | 337 | - | - | 12,500 | 1,475 |
| QUILLBACK | 400 | 19 | 300 | 8 | - | - | 700 | 27 |
| SHEEPSHEAD | 404,900 | 32,395 | 6,500 | 193 | 26,200 | 269 | 437,600 | 32,857 |
| STURGEON, SHOVELNOSE | 11,000 | 1,767 | 2,200 | 390 | - | - | 13,200 | 2,157 |
| SUCKERS | 23,600 | 945 | 2,900 | 85 | - | - | 26,500 | 1,030 |
| TURTLES, SNAPPER | 300 | 47 | - | - | - | - | 300 | 47 |
| TOTAL | 2,693,300 | 272,163 | 194,000 | 18,665 | 291,800 | 5,007 | 3,179,100 | 296,035 |

LOUISIANA

CATCH BY WATERS, 1961

| SPECIES | MISSISSIPPI RIVER AND TRIBUTARIES | | ATCHAFALAYA RIVER | | BOEUF RIVER | |
|---------------------------------|--------------------------------------|---------|----------------------|---------|-------------|--------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BOWFIN | 4,300 | \$215 | 5,900 | \$295 | 400 | \$20 |
| BUFFALOFISH | 239,600 | 33,993 | 578,100 | 69,372 | 84,200 | 12,630 |
| CARP | 39,200 | 1,960 | 56,300 | 2,815 | 8,700 | 435 |
| CATFISH AND BULLHEADS | 257,800 | 50,291 | 1,498,700 | 284,753 | 50,100 | 10,020 |
| GARFISH | 44,200 | 2,210 | 317,500 | 15,875 | 21,400 | 1,070 |
| PADDOLEFISH | 2,000 | 100 | 3,200 | 160 | 3,200 | 160 |
| SHEEPSHEAD | 61,800 | 6,714 | 346,200 | 41,544 | 21,300 | 2,130 |
| CRAWFISH | 25,700 | 3,084 | 1,142,600 | 137,112 | - | - |
| TURTLES: | | | | | | |
| BABY | 700 | 5,250 | 12,700 | 95,250 | 1,300 | 9,750 |
| SNAPPER | 32,800 | 3,936 | 39,500 | 4,650 | 1,300 | 156 |
| SOFT-SHELL | 500 | 3,750 | - | - | - | - |
| FROGS | 11,500 | 4,025 | 26,700 | 10,045 | 8,500 | 2,975 |
| TOTAL | 720,100 | 115,526 | 4,029,400 | 661,671 | 200,400 | 39,346 |

| SPECIES | OUACHITA RIVER | | RED RIVER AND TRIBUTARIES | | INLAND LAKES AND STREAMS | | TOTAL | |
|---------------------------------|-------------------|---------|------------------------------|--------|-----------------------------|---------|-----------|-----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BOWFIN | 8,400 | \$420 | 1,500 | \$75 | 6,000 | \$300 | 26,500 | \$1,325 |
| BUFFALOFISH | 447,700 | 67,155 | 222,500 | 26,596 | 626,700 | 93,102 | 2,200,800 | 304,848 |
| CARP | 42,300 | 2,115 | 30,800 | 1,540 | 84,400 | 4,220 | 261,700 | 13,085 |
| CATFISH AND BULLHEADS | 183,000 | 36,600 | 126,000 | 24,264 | 497,800 | 98,835 | 2,613,400 | 504,763 |
| GARFISH | 49,800 | 2,490 | 137,100 | 6,855 | 107,600 | 5,380 | 677,600 | 33,880 |
| PADDOLEFISH | 7,600 | 380 | 6,700 | 335 | 16,300 | 815 | 39,000 | 1,950 |
| SHEEPSHEAD | 74,200 | 7,420 | 90,000 | 10,510 | 131,100 | 13,330 | 724,600 | 81,648 |
| CRAWFISH | - | - | - | - | - | - | 1,168,300 | 140,196 |
| TURTLES: | | | | | | | | |
| BABY | - | - | 600 | 4,500 | 11,300 | 84,750 | 26,600 | 199,500 |
| SNAPPER | 25,000 | 3,000 | 6,600 | 660 | 121,900 | 14,508 | 227,100 | 26,910 |
| SOFT-SHELL | - | - | - | - | - | - | 500 | 3,750 |
| FROGS | 7,700 | 2,695 | 800 | 280 | 30,600 | 10,710 | 87,800 | 30,730 |
| TOTAL | 845,700 | 122,275 | 622,600 | 77,615 | 1,635,700 | 325,950 | 8,053,900 | 1,342,585 |

MISSISSIPPI RIVER FISHERIES

365

MINNESOTA

CATCH BY WATERS, 1961

| SPECIES | MISSISSIPPI RIVER | | RED LAKE | | INLAND LAKES AND STREAMS | | TOTAL | |
|-----------------------------|-------------------|--------|----------|---------|--------------------------|---------|-----------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BOWFIN | 2,200 | \$43 | - | - | 100 | \$1 | 2,300 | \$44 |
| BUFFALOFISH | 45,100 | 4,643 | - | - | 594,300 | 61,213 | 639,400 | 65,856 |
| BULLHEADS | 2,700 | 189 | 200 | \$30 | 2,078,100 | 141,101 | 2,081,000 | 141,320 |
| BURBOT | - | - | - | - | 7,200 | 72 | 7,200 | 72 |
| CARP | 667,600 | 13,357 | - | - | 4,319,500 | 62,632 | 4,987,300 | 75,989 |
| CATFISH | 34,900 | 8,724 | - | - | - | - | 34,900 | 8,724 |
| GARFISH | 3,100 | 64 | - | - | - | - | 3,100 | 64 |
| MOONEYE | 1,300 | 33 | 9,100 | 1,051 | - | - | 10,400 | 1,084 |
| PIKE OR PICKEREL | - | - | 6,300 | 455 | - | - | 6,300 | 455 |
| QUILLBACK | 2,400 | 94 | - | - | - | - | 2,400 | 94 |
| SHEEPSHEAD | 84,100 | 3,029 | 84,700 | 1,229 | 641,200 | 19,235 | 810,000 | 23,493 |
| SMELT | - | - | - | - | 600 | 6 | 600 | 6 |
| SUCKERS | 4,600 | 70 | (1) | 1 | 27,300 | 1,375 | 31,900 | 1,446 |
| WHITEFISH, COMMON | - | - | 21,800 | 4,135 | - | - | 21,800 | 4,135 |
| YELLOW PERCH | - | - | 164,900 | 16,724 | 47,000 | 2,619 | 211,900 | 19,543 |
| YELLOW PIKE | - | - | 667,000 | 96,383 | - | - | 667,000 | 96,383 |
| TURTLES, SNAPPER | - | - | - | - | 200 | 22 | 200 | 22 |
| TOTAL | 648,200 | 30,246 | 954,000 | 120,008 | 7,715,500 | 286,476 | 9,517,700 | 438,730 |

1/ LESS THAN 50 POUNDS.

MISSOURI

CATCH BY WATERS, 1961

| SPECIES | MISSISSIPPI RIVER | | MISSOURI RIVER | | TOTAL | |
|--------------------------------|-------------------|--------|----------------|---------|---------|--------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BOWFIN | 1,600 | \$16 | (1) | (1) | 1,600 | \$16 |
| BUFFALOFISH | 68,600 | 4,799 | 31,300 | \$2,196 | 99,900 | 6,995 |
| BULLHEADS | 400 | 73 | 500 | 96 | 900 | 171 |
| CARP | 63,500 | 3,341 | 73,200 | 2,928 | 136,700 | 6,269 |
| CATFISH | 30,800 | 9,246 | 19,200 | 5,767 | 50,000 | 15,013 |
| EELS, COMMON | 100 | 15 | 100 | 11 | 200 | 26 |
| GARFISH | 5,400 | 54 | 2,100 | 21 | 7,500 | 75 |
| PADDLEFISH | 7,200 | 649 | 2,200 | 204 | 9,400 | 853 |
| QUILLBACK | 9,300 | 371 | 1,900 | 76 | 11,200 | 449 |
| SHEEPSHEAD | 24,300 | 1,460 | 4,300 | 254 | 28,600 | 1,714 |
| STURGEON, SHOVELNOSE | 2,400 | 480 | 1,500 | 322 | 3,900 | 802 |
| SUCKERS | 1,300 | 68 | 900 | 47 | 2,200 | 115 |
| TURTLES, SNAPPER | 2,100 | 215 | - | - | 2,100 | 215 |
| TOTAL | 237,000 | 20,787 | 137,200 | 11,926 | 374,200 | 32,713 |

1/ LESS THAN 50 POUNDS OR 50 CENTS.

MONTANA

THE COMMERCIAL FISHERIES OF MONTANA, IN THE TRIBUTARIES OF THE MISSISSIPPI RIVER, ARE CONFINED TO THE FORT PECK RESERVOIR OF THE MISSOURI RIVER. THREE CASUAL FISHERMEN, EMPLOYING TWO MOTOR BOATS AND ONE OTHER BOAT, FISHED TWO ANCHOR GILL NETS OF 257 SQUARE YARDS, AND 18 POTS AND TRAPS. THE CATCH CONSISTED OF 16,100 POUNDS OF BUFFALOFISH, VALUED AT \$909 TO THE FISHERMEN, AND 1,000 POUNDS OF CATFISH, VALUED AT \$99 TO THE FISHERMEN.

MISSISSIPPI RIVER FISHERIES

TENNESSEE

CATCH BY WATERS, 1961

| SPECIES | MISSISSIPPI RIVER AND TRIBUTARIES | | CUMBERLAND RIVER | | TENNESSEE RIVER | |
|----------------------------|--------------------------------------|---------|---------------------|---------|--------------------|----------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BOWFIN | 5,400 | \$221 | - | - | - | - |
| BUFFALOFISH | 671,600 | 67,781 | 34,900 | \$3,523 | 660,700 | \$81,682 |
| BULLHEADS | 1,200 | 215 | - | - | - | - |
| CARP | 688,000 | 33,779 | 34,000 | 1,667 | 329,300 | 16,465 |
| CATFISH | 474,900 | 118,435 | 22,900 | 5,709 | 1,246,700 | 305,331 |
| GARFISH | - | - | - | - | 7,000 | 141 |
| PADDLEFISH | 10,300 | 1,180 | 4,300 | 490 | 320,200 | 48,025 |
| QUILLBACK | 52,700 | 1,580 | 5,400 | 163 | 114,300 | 3,430 |
| SHEEPSHEAD | 27,700 | 2,367 | 5,200 | 452 | 48,900 | 4,894 |
| SUCKERS | - | - | - | - | 1,100 | 55 |
| MUSSEL SHELLS | - | - | - | - | 4,232,000 | 237,868 |
| PEARLS AND SLUGS | - | - | - | - | - | 14,978 |
| TURTLES, SNAPPER | - | - | - | - | - | 271 |
| TOTAL | 1,932,000 | 225,578 | 106,700 | 12,004 | 6,965,600 | 713,140 |

| SPECIES | INLAND LAKES AND STREAMS | | TOTAL | |
|----------------------------|--------------------------|--------|-----------|---------|
| | POUNDS | VALUE | POUNDS | VALUE |
| BOWFIN | 400 | \$14 | 5,800 | \$235 |
| BUFFALOFISH | 66,600 | 6,743 | 1,454,200 | 159,729 |
| BULLHEADS | 7,000 | 1,242 | 8,200 | 1,457 |
| CARP | 27,400 | 1,349 | 1,078,700 | 53,260 |
| CATFISH | 147,100 | 36,686 | 1,893,600 | 466,161 |
| GARFISH | - | - | 7,000 | 141 |
| PADDLEFISH | - | - | 334,800 | 49,695 |
| QUILLBACK | - | - | 172,400 | 5,173 |
| SHEEPSHEAD | 2,400 | 207 | 84,200 | 7,940 |
| SUCKERS | - | - | 1,100 | 55 |
| YELLOW BASS | 5,300 | 1,063 | 5,300 | 1,063 |
| MUSSEL SHELLS | - | - | 4,232,000 | 237,868 |
| PEARLS AND SLUGS | - | - | - | 14,978 |
| TURTLES, SNAPPER | - | - | 3,400 | 271 |
| TOTAL | 256,400 | 47,304 | 9,280,700 | 996,026 |

WISCONSIN

CATCH BY WATERS, 1961

| SPECIES | MISSISSIPPI RIVER AND TRIBUTARIES | | INLAND LAKES AND STREAMS | | TOTAL | |
|--------------------------------|--------------------------------------|---------|-----------------------------|---------|------------|---------|
| | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| BOWFIN | 12,500 | \$124 | 200 | \$2 | 12,700 | \$126 |
| BUFFALOFISH | 496,500 | 49,640 | 409,000 | 40,905 | 905,500 | 90,546 |
| BULLHEADS | 54,800 | 3,835 | 155,900 | 10,914 | 210,700 | 14,749 |
| BURBOT | - | - | 55,500 | 666 | 55,500 | 666 |
| CARP | 2,980,800 | 119,230 | 2,873,500 | 100,576 | 5,854,300 | 219,806 |
| CATFISH | 469,800 | 88,671 | - | - | 469,800 | 88,671 |
| EELS, COMMON | (1) | 3 | - | - | (1) | 3 |
| GARFISH | 5,600 | 56 | 3,800 | 38 | 9,400 | 94 |
| MOONEYE | 2,700 | 84 | 3,500 | 105 | 6,200 | 189 |
| QUILLBACK | 17,700 | 532 | - | - | 17,700 | 532 |
| SHEEPSHEAD | 347,100 | 17,354 | 2,253,600 | 67,607 | 2,600,700 | 84,961 |
| STURGEON, SHOVELNOSE | 3,300 | 602 | - | - | 3,300 | 602 |
| SUCKERS | 30,400 | 912 | 75,000 | 1,651 | 105,400 | 2,563 |
| YELLOW PERCH | - | - | 100 | 8 | 100 | 8 |
| TURTLES, SNAPPER | 4,500 | 505 | 400 | 49 | 4,900 | 554 |
| TOTAL | 4,422,700 | 281,548 | 5,830,500 | 222,522 | 10,253,200 | 504,070 |

1/ LESS THAN 50 POUNDS.

WYOMING

THE COMMERCIAL FISHERIES OF WYOMING, IN THE TRIBUTARIES OF THE MISSISSIPPI RIVER, ARE CONFINED TO THE INLAND LAKES AND STREAMS. THE CATCH CONSISTED OF 377,600 POUNDS OF CARP, VALUED AT \$11,329

SECTION 10 - HAWAII FISHERIES

367

The 1961 landings of commercially caught fish and shellfish at ports in the State of Hawaii amounted to 14.5 million pounds valued at nearly \$3 million to the fishermen. This was a gain of 3.4 million pounds (30 percent) and \$193,000 (7 percent) compared with 1960. Landings of skipjack tuna which totaled 11 million pounds (up 3.6 million pounds) accounted for most of the increase. The gain fulfilled predictions made by the Bureau's Biological Laboratory at Honolulu of a better than average year for skipjack landings. In 1961, the catch of skipjack averaged 6,000 pounds per trip--the fourth highest average catch per trip since 1952.

Following skipjack in importance of volume and value of the catch was the longline fishery for bigeye and yellowfin tuna, and black and striped marlin. The downward trend of the longline fishery since 1953 has been caused chiefly by reduced catches of bigeye tuna. Landings of this species have declined from a high of 2.8 million pounds in 1953 to 1 million pounds in 1961. The fishery for yellowfin tuna, and black and striped marlin has remained relatively stable. The longline fishery is conducted by approximately 30 vessels of 5 net tons or more, which fished from 20 to 30 baskets of 6-hook gear. Bait used with this gear consisted largely of imported jack mackerel which have replaced imported sardines. Since the vessels have no mechanical refrigeration, ice is used to preserve the catch. Usually 1 or 2 weeks of fishing are required before the vessels catch a full cargo.

Fishery products were landed at six of the eight islands that form the State of Hawaii. The Island of Oahu ranked first with a catch of 11 million pounds (76 percent). The Island of Hawaii was in second place with 1.9 million pounds, followed by Maui (1.3 million pounds). The remainder of the catch was landed at ports on the Islands of Kauai, Molokai, and Lanai. Receipts of tuna (albacore, bigeye and bluefin, little, skipjack, and yellowfin) accounted for 86 percent of the quantity and 69 percent of the value of all fishery products landed in Hawaii. The 1961 catch was taken by 589 fishermen. Fishing craft operated during the year included 65 vessels of 5 net tons and over, 195 motor boats, and 20 other boats. Except for minor improvements in craft and gear, the fishermen of Hawaii still fish much as they did 40 years ago.

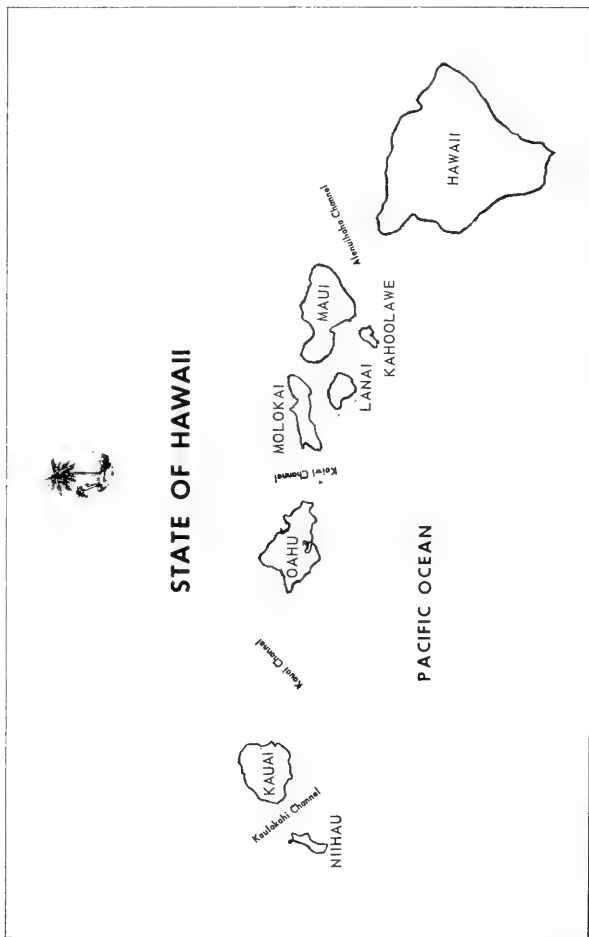
Data on the volume and value of the fisheries of Hawaii, by months, were published in Statistical Digests for the years 1946-58. It was not until 1959, the year Hawaii became a State, that operating unit and catch data were assembled in approximately the same manner as those for other States so that the figures could be included in the national summary tables. Catch data for Hawaii are presented in two categories--the ocean catch and the pond (salt-water) catch. The common and scientific names of the species of fish and shellfish landed in Hawaii are not included in Section 14 of this report.

The data in this section were assembled and prepared for publication by the Bureau's area office, Honolulu, Hawaii, largely from information collected by the Hawaii Department of Land and Natural Resources, Division of Fish and Game.

The following tables contain summarized and detailed information on the 1961 operating units and catch by islands of the State of Hawaii. Condensed summary data on the operating units and catch of the Hawaii area, appearing in the following pages, have been previously published in Current Fishery Statistics No. 3128.



SKIPJACK TUNA



HAWAII FISHERIES

369

SECTIONAL SUMMARIES

SUMMARY OF CATCH, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| ISLAND | FISH | | SHELLFISH, ETC. | | TOTAL | |
|-------------------|----------|-------|-----------------|-------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| HAWAII | 1,867 | 387 | 16 | 9 | 1,883 | 396 |
| MOLOKAI | 13 | 6 | 1 | 2 | 14 | 8 |
| OAHU | 11,026 | 2,199 | 30 | 21 | 11,056 | 2,220 |
| KAUAI | 166 | 71 | 9 | 6 | 175 | 77 |
| MAUI | 1,331 | 191 | 1 | (1) | 1,332 | 191 |
| LANAI | 12 | 5 | (1) | (1) | 12 | 5 |
| TOTAL | 14,415 | 2,859 | 57 | 38 | 14,472 | 2,897 |

1/ LESS THAN 500 POUNDS OR \$500.

SUMMARY OF OPERATING UNITS, 1961

| ITEM | TOTAL |
|------------------------------|--------|
| | NUMBER |
| FISHERMEN: | |
| ON VESSELS | 320 |
| ON BOATS AND SHORE | 269 |
| TOTAL | 589 |
| VESSELS, MOTOR | 65 |
| GROSS TONNAGE | 1,908 |
| BOATS: | |
| MOTOR | 195 |
| OTHER | 20 |

NOTE:--DATA ARE NOT AVAILABLE ON THE NUMBER AND SIZE OF GEAR USED IN THE HAWAII FISHERIES. THE TYPES OF GEAR USED CAN BE ASCERTAINED FROM THE TABLE SHOWING THE CATCH BY GEAR. OPERATING UNIT DATA ARE INCOMPLETE. THERE WERE 20 WHOLESALING AND MANUFACTURING ESTABLISHMENTS. THEY EMPLOYED 365 PERSONS FOR THE SEASON. THE AVERAGE YEARLY EMPLOYMENT WAS 308 PERSONS.

HAWAII - CATCH BY SPECIES, 1961

| ENGLISH | SPECIES | HAWAIIAN | TOTAL | |
|-------------------------------|---------|-----------------------|---------|----------|
| | | | POUNDS | VALUE |
| OCEAN CATCH: | | FISH | | |
| AMBERJACK | | KAHALA | 71,830 | \$21,051 |
| BARRACUDA | | KAKU | 2,316 | 701 |
| BARRACUDA, JAPANESE | | KAMELEA | 4,514 | 1,966 |
| BIGEYE SCAD | | AKULE | 285,429 | 188,851 |
| BONEFISH | | OIO | 29,158 | 11,041 |
| CREVALLE: | | | | |
| BLUE | | ULUA OMI LU | 5,769 | 3,305 |
| JACK | | ULUA | 68,390 | 29,629 |
| DAMSELFISH | | KUPIPI | 3,634 | 1,301 |
| DOLPHIN | | MAHI MAHI | 116,227 | 47,752 |
| EELS: | | | | |
| CONGER | | PUHI | 6,063 | 1,008 |
| MORAY | | PUHI | 1,659 | 206 |
| GOATFISHES: | | | | |
| | | KUMU | 15,305 | 15,907 |
| | | MALU | 3,280 | 1,932 |
| | | MOANO | 13,595 | 7,906 |
| | | MOELUA | 3,214 | 1,833 |
| | | WEKE | 84,625 | 34,654 |
| | | WEKE-ULA | 15,173 | 9,998 |
| | | OPELU | 203,975 | 84,269 |
| MACKEREL, JACK | | | | |
| MARLIN: | | | | |
| BLACK | | A'U | 270,028 | 75,332 |
| SALEFISH | | A'U LEPE | 4,578 | 816 |
| SILVER | | A'U | 16,238 | 4,912 |
| STRIPED | | A'U | 226,843 | 63,052 |
| MILKFISH | | AWA | 13,099 | 4,622 |
| MOUNTAIN BASS | | AHOLEHOLE | 4,691 | 2,997 |
| MULLET | | AMAMA | 18,734 | 13,268 |
| PARROT FISH | | UHU | 5,632 | 2,360 |
| RED BIGEYE | | AWEOE | 3,555 | 1,343 |
| RUDDERFISH | | NENUE | 6,826 | 2,535 |
| RUNNER | | LAI | 622 | 196 |
| SARDINE | | MAKI AWA | 658 | 133 |
| SEA BASS, BLACK | | HAPUUPU | 18,636 | 9,706 |
| SNAPPER: | | | | |
| GRAY | | UKU | 41,978 | 17,864 |
| PINK | | KALIKALI | 19,073 | 9,618 |
| PINK | | OPAKAPAKA | 90,271 | 43,377 |
| RED | | ULAULA | 12,796 | 11,171 |
| RED | | ULAULA KOAE | 42,917 | 37,587 |
| SPOT | | A'AWA | 1,292 | 233 |

(CONTINUED ON NEXT PAGE)

HAWAII FISHERIES

HAWAII - CATCH BY SPECIES, 1961 - Continued

| SPECIES | | TOTAL | |
|--------------------------|-------------|------------|-----------|
| ENGLISH | HAWAIIAN | POUNDS | VALUE |
| OCEAN CATCH - CONTINUED: | | | |
| FISH - CONTINUED | | | |
| SQUID | UU | 13,177 | \$9,451 |
| SURGEON FISH: | | | |
| | KALA | 12,880 | 1,673 |
| | MAIKO | 638 | 99 |
| | PALANI | 5,393 | 996 |
| | PUALU | 24,930 | 6,442 |
| | AU | 22,744 | 4,341 |
| SWORDFISH | | | |
| TANG: | | | |
| CONVIC | MANINI | 7,098 | 3,542 |
| ORANGE SPOT | NAENAE | 733 | 111 |
| TENPOUNDER | AWAAWA | 1,170 | 446 |
| THREADFIN | MOI | 13,683 | 10,679 |
| TRIGGERFISH | HUMUHUMU | 1,135 | 400 |
| TUNA: | | | |
| ALBACORE | AHI PALAHA | 13,560 | 4,079 |
| BIG EYE AND BLUEFIN | AHI HI | 1,037,404 | 507,575 |
| LITTLE | KAWAKAWA | 2,007 | 372 |
| SKIPJACK | AKU | 10,951,328 | 1,306,735 |
| YELLOWFIN | AHI | 458,994 | 168,419 |
| TOTAL TUNA | | 12,463,293 | 1,987,180 |
| WAHOO | ONO | 25,261 | 5,070 |
| UNCLASSIFIED | | 26,168 | 9,545 |
| TOTAL FISH | | 14,351,327 | 2,804,809 |
| SHELLFISH, ETC. | | | |
| ALGAE | LIMU | 45 | 56 |
| CRABS: | | | |
| | KONA | 17,741 | 13,134 |
| | PAPAI | 4,574 | 1,372 |
| | KUAHONU | 94 | 52 |
| | OPIHI | 2,145 | 4,802 |
| LIMPET | | | |
| LOBSTERS: | | | |
| SLIPPER | ULAPAPAPA | 43 | 26 |
| SPINY | ULA | 12,621 | 8,543 |
| OCTOPUS | HEI | 3,797 | 2,352 |
| SHRIMP | OPAE | 212 | 288 |
| SQUID | MUHEE | 8,442 | 3,448 |
| TURTLES | HONU | 323 | 139 |
| TOTAL SHELLFISH, ETC. | | 50,037 | 34,212 |
| TOTAL OCEAN CATCH | | 14,401,364 | 2,839,021 |
| POND CATCH: 1/ | | | |
| FISH | | | |
| BARRACUDA | KAKU | 647 | 480 |
| BONEFISH | OIO | 141 | 78 |
| CREVALLE: | | | |
| BLUE | ULUA OMI LU | 12 | 12 |
| JACK | ULUA | 1,719 | 1,643 |
| EELS: | | | |
| CONGER | PUHI | 18 | 3 |
| MORAY | PUHI | 22 | 4 |
| GOATFISHES: | | | |
| | KUMU | 5 | 5 |
| | WEKE | 91 | 33 |
| MILKFISH | AWA | 6,812 | 3,737 |
| MOUNTAIN BASS | AHOLEHOLE | 2,974 | 913 |
| MULLET | AMAAMA | 48,727 | 46,096 |
| RUNNER | LA | 53 | 15 |
| SURGEON FISH | PUALU | 320 | 80 |
| TENPOUNDER | AWAAWA | 1,116 | 507 |
| THREADFIN | MOI | 655 | 656 |
| TILAPIA | | 38 | 10 |
| UNCLASSIFIED FISH | | 32 | 12 |
| TOTAL FISH | | 63,382 | 54,264 |
| SHELLFISH | | | |
| CLAMS, HARD | OLEPE | 36 | 51 |
| CRABS: | | | |
| | PAPAI | 4,053 | 1,540 |
| | MOALA | 169 | 63 |
| | SAMUAN | 694 | 503 |
| | KUAHONU | 2,136 | 1,468 |
| SHRIMP | OPAE | 6 | 9 |
| TOTAL SHELLFISH | | 7,094 | 3,654 |
| TOTAL POND CATCH | | 70,476 | 57,938 |
| GRAND TOTAL | | 14,471,840 | 2,896,959 |

1/ SALT-WATER.

NOTE:--THE WEIGHT OF MEATS FOR MOLLUSKS IS BASED ON A YIELD OF 25 PERCENT FOR HARD CLAMS AND 20 PERCENT FOR LIMPETS.

HAWAII FISHERIES

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HAWAII - OPERATING UNITS BY ISLAND AND GEAR, 1961

| ITEM | HAWAII | | | | | | |
|------------------------------|----------|----------------|-----------|--------|---------------|--------|------------------------|
| | BAG NETS | POTS AND TRAPS | GILL NETS | LINES | | | |
| | | | | HAND | POLE AND LINE | TROLL | LONG OR SET WITH HOOKS |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | | |
| ON VESSELS | - | - | - | - | 20 | 4 | 12 |
| ON BOATS AND SHORE | 3 | 1 | 6 | 37 | 4 | 5 | 17 |
| TOTAL | 3 | 1 | 6 | 37 | 24 | 9 | 29 |
| VESSELS, MOTOR | - | - | - | - | 2 | 2 | 4 |
| GROSS TONNAGE | - | - | - | - | 90 | 22 | 71 |
| BOATS, MOTOR | 3 | 1 | 4 | 24 | 6 | 4 | 5 |

| ITEM | HAWAII - CONTINUED | | | | | | |
|------------------------------|--------------------|-----------|--------|---------|---------|-------------------|---------------------------------|
| | LIFT NETS | CAST NETS | SPEARS | BY HAND | POND 1/ | UNCLASSIFIED GEAR | TOTAL, EXCLUSIVE OF DUPLICATION |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | | |
| ON VESSELS | - | - | - | - | - | - | 36 |
| ON BOATS AND SHORE | 8 | 1 | 1 | 3 | 1 | 1 | 76 |
| TOTAL | 8 | 1 | 1 | 3 | 1 | 1 | 114 |
| VESSELS, MOTOR | - | - | - | - | - | - | 8 |
| GROSS TONNAGE | - | - | - | - | - | - | 183 |
| BOATS, MOTOR | 5 | - | - | - | - | - | 45 |

| ITEM | MOLOKAI | | | |
|---|-----------|---------|---------|---------------------------------|
| | GILL NETS | BY HAND | POND 1/ | TOTAL, EXCLUSIVE OF DUPLICATION |
| | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN, ON BOATS AND SHORE | 11 | 2 | 4 | 16 |
| BOATS: | | | | |
| MOTOR | 9 | 1 | 1 | 11 |
| OTHER | - | - | 2 | 2 |

| ITEM | OAHU | | | |
|------------------------------|-------------|----------|----------------|-----------|
| | HAUL SEINES | BAG NETS | POTS AND TRAPS | GILL NETS |
| | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | |
| ON VESSELS | 11 | 14 | - | - |
| ON BOATS AND SHORE | - | - | 18 | 18 |
| TOTAL | 11 | 14 | 18 | 18 |
| VESSELS, MOTOR | 3 | 2 | - | - |
| GROSS TONNAGE | 57 | 52 | - | - |
| BOATS: | | | | |
| MOTOR | - | - | 14 | 15 |
| OTHER | - | - | - | 3 |

| ITEM | OAHU - CONTINUED | | | | | | |
|------------------------------|------------------|---------------|--------|------------------------|-----------|---------|---------------------------------|
| | LINES | | | | LIFT NETS | POND 1/ | TOTAL, EXCLUSIVE OF DUPLICATION |
| | HAND | POLE AND LINE | TROLL | LONG OR SET WITH HOOKS | | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | | | |
| ON VESSELS | 7 | 114 | 2 | 73 | 3 | - | 224 |
| ON BOATS AND SHORE | 77 | 2 | 2 | 6 | 2 | 13 | 121 |
| TOTAL | 84 | 116 | 4 | 79 | 5 | 13 | 345 |
| VESSELS, MOTOR | 2 | 13 | 1 | 25 | 1 | - | 47 |
| GROSS TONNAGE | 64 | 613 | 26 | 559 | 18 | - | 1,389 |
| BOATS: | | | | | | | |
| MOTOR | 58 | 17 | 2 | 2 | 1 | 2 | 94 |
| OTHER | - | - | - | - | - | 5 | 6 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

HAWAII FISHERIES

HAWAII - OPERATING UNITS BY ISLAND AND GEAR, 1961 - Continued

| ITEM | KAUAI | | | |
|------------------------------------|-------------|--------------|--------|---------------------|
| | BAG NETS | GILL NETS | LINES | |
| | | | HAND | POLE AND LINE |
| NUMBER | NUMBER | NUMBER | NUMBER | |
| FISHERMEN: ON VESSELS | - | - | 4 | - |
| ON BOATS AND SHORE | 7 | 5 | 10 | 1 |
| TOTAL | 7 | 5 | 14 | 1 |
| VESSELS, MOTOR | - | - | 2 | - |
| GROSS TONNAGE | - | - | 19 | - |
| BOATS: MOTOR | - | - | 9 | - |
| OTHER | 7 | 5 | - | - |

| ITEM | KAUAI - CONTINUED | | | | |
|------------------------------------|-------------------|------------------------------|--------------|--------------|--|
| | LINES - CONTINUED | | LIFT NETS | CAST NETS | TOTAL, EXCLUSIVE OF DUPLI- CATION |
| | TROLL | LONG OR SET WITH HOOKS | | | |
| NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| FISHERMEN: ON VESSELS | - | 3 | - | - | 7 |
| ON BOATS AND SHORE | 3 | 6 | 2 | 2 | 20 |
| TOTAL | 3 | 9 | 2 | 2 | 27 |
| VESSELS, MOTOR | - | 1 | - | - | 3 |
| GROSS TONNAGE | - | 16 | - | - | 37 |
| BOATS: MOTOR | 3 | 5 | 1 | - | 9 |
| OTHER | - | - | - | 2 | 10 |

| ITEM | MAUI | | | | |
|------------------------------------|-------------|--------------|--------|------------------|-------|
| | BAG NETS | GILL NETS | LINES | | |
| | | | HAND | POLE AND LINE | TROLL |
| NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| FISHERMEN: ON VESSELS | 7 | - | - | 46 | - |
| ON BOATS AND SHORE | 7 | 4 | 9 | - | 2 |
| TOTAL | 14 | 4 | 9 | 46 | 2 |
| VESSELS, MOTOR | 1 | - | - | 6 | - |
| GROSS TONNAGE | 17 | - | - | 282 | - |
| BOATS, MOTOR | 8 | 4 | 9 | 6 | 1 |

| ITEM | MAUI - CONTINUED | | | |
|------------------------------------|------------------|--------|---------|--|
| | LIFT NETS | SPEARS | BY HAND | TOTAL, EXCLUSIVE OF DUPLI- CATION |
| | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: ON VESSELS | - | - | - | 53 |
| ON BOATS AND SHORE | 5 | 1 | 1 | 27 |
| TOTAL | 5 | 1 | 1 | 80 |
| VESSELS, MOTOR | - | - | - | 7 |
| GROSS TONNAGE | - | - | - | 299 |
| BOATS, MOTOR | 1 | 1 | - | 29 |

| ITEM | LANAI | | |
|--|--------|--------|--|
| | LINES | | TOTAL, EXCLUSIVE OF DUPLI- CATION |
| | HAND | TROLL | |
| NUMBER | NUMBER | NUMBER | |
| FISHERMEN, ON BOATS AND SHORE | 6 | 7 | 7 |
| BOATS, MOTOR | 6 | 7 | 7 |

1/ SEINES, MISCELLANEOUS NETS, AND BY HAND.

NOTE:--NUMBER AND QUANTITY OF GEAR NOT AVAILABLE. DATA ON OPERATING UNITS ARE INCOMPLETE.

HAWAII FISHERIES

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HAWAII - CATCH BY ISLANDS, 1961

| SPECIES | | HAWAII | | MOLOKAI | | OAHU | |
|---------------------------------|-----------------------|-----------|---------|---------|-------|------------|-----------|
| ENGLISH | HAWAIIAN | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| OCEAN CATCH: | | | | | | | |
| FISH | | | | | | | |
| AMBERJACK | KAHALA | 13,585 | \$3,065 | - | - | 40,754 | \$12,137 |
| BARRACUDA | KAKU | 302 | 59 | 58 | \$46 | 1,643 | 433 |
| BARRACUDA, JAPANESE | KAWALEA | 3,613 | 1,593 | - | - | 667 | 292 |
| BIGEYE SCAD | AKULE | 34,081 | 23,523 | 59 | 26 | 150,204 | 102,742 |
| BONEFISH | OIO | 6,934 | 2,664 | 217 | 71 | 17,638 | 7,208 |
| CREVALLE: | | | | | | | |
| BLUE | OMILU | - | - | - | - | 5,069 | 2,896 |
| JACK | ULUA | 7,233 | 2,895 | 244 | 186 | 53,393 | 23,288 |
| DAMSELFISH | KUPII | - | - | - | - | 3,488 | 1,221 |
| DOLPHIN | MAHIMAH | 27,002 | 8,728 | - | - | 85,580 | 38,062 |
| EELS: | | | | | | | |
| CONGER | PUHI | 121 | 53 | - | - | 5,942 | 955 |
| MORAY | PUHI | - | - | - | - | 1,659 | 206 |
| GOATFISHES: | | | | | | | |
| KUMU | - | 409 | 425 | 372 | 205 | 13,852 | 14,806 |
| MALU | - | 4 | 2 | - | - | 3,276 | 1,930 |
| MOANO | - | 1,131 | 678 | 50 | 20 | 12,398 | 7,198 |
| MOELUA | - | - | - | - | - | 4 | 4 |
| WEKE | - | 1,752 | 1,401 | 5,056 | 1,685 | 74,160 | 29,756 |
| WEKE-ULUA | - | 478 | 352 | - | - | 10,857 | 8,201 |
| OPELU | - | 70,689 | 25,475 | - | - | 93,047 | 45,136 |
| MACKEREL, JACK | | | | | | | |
| MARLIN: | | | | | | | |
| BLACK | AIU | 70,934 | 14,043 | - | - | 199,094 | 61,269 |
| SALFISH | AIU LEPE | 1,191 | 326 | - | - | 3,387 | 490 |
| SILVER | AIU | 10,096 | 2,776 | - | - | 6,142 | 2,136 |
| STRIPED | AIU | 26,237 | 6,701 | - | - | 200,123 | 56,245 |
| MILKFISH | AWA | 834 | 364 | 114 | 42 | 9,136 | 3,557 |
| MOUNTAIN BASS | AHOLEHOLE | 100 | 72 | 381 | 126 | 443 | 327 |
| MULLET | AMAAMA | 1,449 | 1,071 | 3,801 | 2,376 | 5,360 | 4,348 |
| PARROT FISH | UHU | 62 | 21 | 31 | 15 | 5,438 | 2,299 |
| RED BIGEYE | ANEOWO | 1,991 | 687 | 166 | 67 | 889 | 391 |
| RUDDERFISH | NENU | 615 | 228 | 29 | 12 | 6,149 | 2,283 |
| RUNNER | LA'I | 6 | 3 | 22 | 10 | 98 | 29 |
| SARDINE | MAKI IAWA | - | - | 15 | 4 | 643 | 129 |
| SEA BASS, BLACK | HAPUUPU | 273 | 126 | - | - | 16,856 | 9,038 |
| SNAPPER: | | | | | | | |
| GRAY | UKU | 1,584 | 631 | - | - | 26,339 | 12,177 |
| PINK | KALIKALI | 2,980 | 987 | - | - | 16,087 | 8,602 |
| PINK | OPAKAPAKA | 1,457 | 723 | - | - | 58,145 | 28,000 |
| FIND | ULAULA | 1,281 | 1,097 | - | - | 10,849 | 9,687 |
| RED | ULAULA KOAE | 1,551 | 1,121 | - | - | 41,012 | 36,310 |
| SPOT | A IAWA | 720 | 105 | - | - | 492 | 101 |
| SQUIRREL FISH | UU | 6,405 | 3,846 | 849 | 610 | 5,116 | 4,494 |
| SURGEONFISH: | | | | | | | |
| KALA | - | 1 | (1) | - | - | 12,443 | 1,780 |
| MAIKO | - | 36 | 14 | - | - | 602 | 85 |
| PALANI | - | 68 | 8 | - | - | 5,233 | 965 |
| PUALU | - | - | - | 37 | 11 | 24,893 | 6,431 |
| AIU | - | 377 | 38 | - | - | 22,367 | 4,303 |
| SWORDFISH | | | | | | | |
| TANG: | | | | | | | |
| CONVICT | MANINI | 1,191 | 796 | 254 | 108 | 5,156 | 2,393 |
| ORANGE SPOT | NAEAE | - | - | - | - | 733 | 111 |
| TENPOUNDER | AWAAWA | - | - | - | - | 1,170 | 446 |
| THREADFIN, PACIFIC | MOI | 1,752 | 1,483 | 174 | 118 | 7,019 | 5,777 |
| TRIGGERFISH | HUMUHUMU | 376 | 60 | - | - | 759 | 340 |
| TUNA: | | | | | | | |
| ALBACORE | AHIPALAHA | 4,770 | 1,278 | - | - | 8,790 | 2,801 |
| BIGEYE AND BLUEFIN | HIHI | 246,513 | 111,983 | - | - | 790,162 | 395,369 |
| LITTLE | KAWAKAWA | 71 | 11 | - | - | 1,110 | 157 |
| SKIPJACK | AKU | 1,150,026 | 118,852 | - | - | 8,579,155 | 1,057,527 |
| YELLOWFIN | AHI | 147,398 | 42,631 | - | - | 289,850 | 120,227 |
| TOTAL TUNA | - | 1,548,778 | 274,755 | - | - | 9,669,067 | 1,576,081 |
| WAHOO | | | | | | | |
| UNCLASSIFIED | ONO | 12,499 | 2,413 | - | - | 7,635 | 1,428 |
| - | - | 4,696 | 1,925 | 50 | 23 | 19,142 | 6,734 |
| TOTAL FISH | - | 1,866,844 | 387,333 | 11,979 | 5,761 | 10,963,638 | 2,145,247 |
| CRABS: | | | | | | | |
| SHELLFISH, ETC. | | | | | | | |
| KONA | - | 905 | 528 | - | - | 9,546 | 8,128 |
| PAPA I | - | 4,574 | 1,372 | - | - | 94 | 52 |
| KUAHONU | - | - | - | - | - | 11 | 27 |
| OPHI | - | 1,481 | 3,373 | 619 | 1,315 | - | - |
| LOBSTER: | | | | | | | |
| SLIPPER | ULAPAPAPA | - | - | - | - | 43 | 26 |
| SPINY | ULA | 404 | 270 | - | - | 11,986 | 8,149 |
| OCTOPUS | HEE | 270 | 137 | - | 121 | 1,359 | 746 |
| SQUID | MUHEE | 8,023 | 3,188 | - | - | 7 | 4 |
| SHRIMP | OPAE | 129 | 106 | 83 | 182 | - | - |
| TOTAL SHELLFISH, ETC. | - | 15,786 | 8,974 | 882 | 1,618 | 23,046 | 17,132 |
| TOTAL OCEAN CATCH | - | 1,882,630 | 396,307 | 12,861 | 7,379 | 10,986,684 | 2,162,379 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

HAWAII FISHERIES

HAWAII - CATCH BY ISLANDS, 1961 - Continued

| SPECIES | | HAWAII | | MOLOKAI | | OAHU | |
|------------------------------|---------------------|-----------|---------|---------|-------|------------|-----------|
| ENGLISH | HAWAIIAN | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| OCEAN CATCH: | | | | | | | |
| FISH | | | | | | | |
| BARRACUDA | KAKU | - | - | 25 | \$10 | 622 | \$470 |
| BONEFISH | OIO | - | - | - | - | 141 | 78 |
| CREVALLE: | | | | | | | |
| BLUE | OMILU | - | - | - | - | 12 | 12 |
| JACK | ULUA | - | - | - | - | 1,719 | 1,643 |
| EELS: | | | | | | | |
| CONGER | PUHI | - | - | - | - | 18 | 3 |
| MORAY | PUHI | - | - | - | - | 22 | 4 |
| GOATFISHES: | | | | | | | |
| | KUMU | - | - | - | - | 5 | 5 |
| | WEKE | - | - | - | - | 91 | 33 |
| | AWA | 320 | \$112 | - | - | 6,492 | 3,625 |
| MILKFISH | AHOLEHOLE | - | - | - | - | 2,974 | 913 |
| MOUNTAIN BASS | AMAAMA | - | - | 601 | 551 | 48,126 | 45,545 |
| MULLET | LAI | - | - | - | - | 53 | 15 |
| RUNNER | PUALU | - | - | - | - | 320 | 80 |
| SURGEONFISH | AWAAWA | - | - | - | - | 1,116 | 507 |
| TENPOUNDER | MOI | - | - | - | - | 655 | 656 |
| THREADFIN, PACIFIC | | - | - | - | - | 38 | 10 |
| TILAPIA | | - | - | - | - | 32 | 12 |
| UNCLASSIFIED | | - | - | - | - | - | - |
| TOTAL FISH | | 320 | 112 | 626 | 561 | 62,436 | 53,611 |
| SHELLFISH | | | | | | | |
| CLAMS, HARD | OLEPE | - | - | 36 | 51 | - | - |
| CRABS: | | | | | | | |
| | PAPA I | - | - | - | - | 4,053 | 1,540 |
| | MOALA | - | - | - | - | 169 | 63 |
| | SAMOAN | - | - | - | - | 694 | 503 |
| | KUAHONU | - | - | - | - | 2,136 | 1,488 |
| | OPAI | - | - | - | - | 6 | 9 |
| SHRIMP | | - | - | - | - | - | - |
| TOTAL SHELLFISH | | - | - | 36 | 51 | 7,058 | 3,603 |
| TOTAL POND CATCH | | 320 | 112 | 662 | 612 | 69,494 | 57,214 |
| GRAND TOTAL | | 1,882,950 | 396,419 | 13,523 | 7,991 | 11,056,178 | 2,219,593 |

| SPECIES | | KAUAI | | MAUI | | LANAI | |
|-------------------------------|-----------------------|--------|---------|--------|--------|--------|-------|
| ENGLISH | HAWAIIAN | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| OCEAN CATCH: | | | | | | | |
| FISH | | | | | | | |
| AMBERJACK | KAHALA | 15,144 | \$5,286 | 2,063 | \$425 | 284 | \$138 |
| BARRACUDA | KAKU | 300 | 80 | - | - | 213 | 83 |
| BARRACUDA, JAPANESE | KAWALEA | 8 | 2 | 197 | 67 | 29 | 12 |
| BIGEYE SCAD | AKULE | 51,098 | 29,053 | 49,410 | 33,114 | 577 | 393 |
| BONEFISH | OIO | 1,181 | 275 | 3,137 | 808 | 51 | 15 |
| CREVALLE: | | | | | | | |
| BLUE | ULUA | 654 | 391 | 46 | 18 | - | - |
| JACK | ULUA | 3,751 | 1,561 | 3,241 | 1,599 | 528 | 300 |
| DANSELFISH | KUPIPI | - | - | - | - | 146 | 80 |
| DOLPHIN | MAHIMAHI | 840 | 271 | 2,575 | 602 | 230 | 89 |
| GOATFISHES: | | | | | | | |
| | KUMU | 45 | 30 | 627 | 441 | - | - |
| | MOANO | 6 | 3 | 2 | 1 | 9 | 6 |
| | MOELUA | - | - | 3,094 | 1,753 | 116 | 76 |
| | WEKE | 2,285 | 1,268 | 1,352 | 544 | - | - |
| | WEKE-ULUA | 1,803 | 1,005 | 2,035 | 440 | - | - |
| | OPELU | 29,693 | 10,088 | 8,573 | 2,705 | 1,973 | 865 |
| MACKEREL, JACK | | | | | | | |
| MARLIN, STRIPED | A'U | 273 | 64 | 210 | 42 | - | - |
| MILKFISH | AWA | 4 | 1 | 3,011 | 658 | - | - |
| MOUNTAIN BASS | AHOLEHOLE | 400 | 274 | 3,367 | 2,198 | - | - |
| MULLET | AMAAMA | 6,962 | 4,659 | 1,162 | 814 | - | - |
| PARROT FISH | UHU | - | - | 101 | 25 | - | - |
| RED BIGEYE | AWEOEO | 143 | 51 | 366 | 147 | - | - |
| RUDDERFISH | NEHU | - | - | 33 | 12 | - | - |
| RUNNER | LAI | - | - | 494 | 153 | 2 | 1 |
| SEA BASS, BLACK | HAPUUPU | 613 | 242 | 865 | 283 | 29 | 19 |
| SNAPPER: | | | | | | | |
| GRAY | UKU | 9,196 | 3,539 | 2,565 | 1,334 | 294 | 183 |
| PINK | KALIKALI | 38 | 19 | 26 | 9 | 2 | 1 |
| PINK | OPAKAPAKA | 869 | 377 | 29,276 | 14,030 | 524 | 247 |
| RED | ULAULA | 212 | 113 | 396 | 236 | 58 | 38 |
| RED | ULAULA KOAE | 135 | 26 | 184 | 105 | 35 | 25 |
| SPOT | A'AWA | - | - | 2 | (1) | 78 | 27 |
| SQUIRRELFISH | UU | 532 | 325 | 220 | 140 | 55 | 36 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

HAWAII FISHERIES

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HAWAII - CATCH BY ISLANDS, 1961 - Continued

| SPECIES | | KAUAI | | MAUI | | LANAI | |
|-------------------------------|--------------------|---------|--------|-----------|---------|--------|-------|
| | | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| ENGLISH | HAWAIIAN | | | | | | |
| OCEAN CATCH; - CONTINUED | FISH - CONTINUED | | | | | | |
| SURGEON FISH: | | | | | | | |
| | KALA | 281 | \$101 | 155 | \$22 | - | - |
| | PALANI | - | - | 82 | 19 | 10 | \$4 |
| TANG, CONVICT | HANINI | 379 | 178 | - | - | - | - |
| THREADFIN, PACIFIC | MOI | 4,232 | 2,800 | 706 | 501 | - | - |
| TUNA: | | | | | | | |
| BIGEYE AND BLUEFIN | AHI | 729 | 223 | - | - | - | - |
| LITTLE | KAWAKAWA | 700 | 161 | 13 | 8 | 113 | 35 |
| SKIPJACK | AKU | 6,540 | 1,486 | 1,209,072 | 126,934 | 6,535 | 1,936 |
| YELLOWFIN | AHI | 21,518 | 5,512 | 175 | 34 | 53 | 15 |
| TOTAL TUNA | | 29,487 | 7,382 | 1,209,260 | 126,976 | 6,701 | 1,986 |
| WAHOO | ONO | 4,912 | 1,155 | 130 | 34 | 85 | 40 |
| UNCLASSIFIED | | 656 | 222 | 1,390 | 506 | 234 | 135 |
| TOTAL FISH | | 166,132 | 70,841 | 1,330,471 | 190,828 | 12,263 | 4,799 |
| SHELLFISH, ETC. | | | | | | | |
| ALGAE | LIMU | 45 | 56 | - | - | - | - |
| CRABS | KONA | 7,290 | 4,478 | - | - | - | - |
| LIMPET | OPIHI | 24 | 62 | - | - | 10 | 25 |
| LOBSTER, SPINY | ULA | 4 | 2 | 227 | 122 | - | - |
| OCTOPUS | HEE | 1,463 | 1,079 | 525 | 269 | - | - |
| SQUID | MUHEE | 412 | 256 | - | - | - | - |
| TURTLES | HONU | - | - | 323 | 139 | - | - |
| TOTAL SHELLFISH, ETC. | | 9,238 | 5,933 | 1,075 | 530 | 10 | 25 |
| TOTAL OCEAN CATCH | | 175,370 | 76,774 | 1,331,546 | 191,358 | 12,273 | 4,824 |
| GRAND TOTAL | | 175,370 | 76,774 | 1,331,546 | 191,358 | 12,273 | 4,824 |

1/ LESS THAN 50 CENTS.

2/ SALT WATER.

NOTE:--THE WEIGHT OF MEATS FOR MOLLUSKS IS BASED ON A YIELD OF 25 PERCENT FOR HARD CLAMS AND 20 PERCENT FOR LIMPETS.



UNDERWATER OBSERVATION CHAMBER IN BOW OF CHARLES H. GILBERT.

HAWAII FISHERIES

HAWAII - CATCH BY GEAR, 1961

| SPECIES | | HAUL SEINES | | BAG NETS | |
|--------------------------|---------------------|-------------|--------|----------|-----------|
| ENGLISH | HAWAIIAN | POUNDS | VALUE | POUNDS | VALUE |
| AMBERJACK | KAHALA | 10 | \$3 | - | - |
| BARRACUDA | KAKU | 4 | 2 | - | - |
| BIGEYE SCAD | AKULE | 134 | 72 | 196,345 | \$115,189 |
| BONEFISH | OIO | 3,690 | 2,255 | 14,315 | 4,373 |
| CREVALLE, JACK | ULUA | 2,938 | 2,086 | 495 | 319 |
| DAMSEL FISH | KUPIPI | 2,649 | 959 | 75 | 38 |
| DOLPHIN | MAHI MAHI | 7 | 2 | - | - |
| GOATFISHES: | | | | | |
| | KUMU | 174 | 185 | - | - |
| | MOANO | 549 | 240 | - | - |
| MACKEREL, JACK | WEKE | 37,887 | 16,161 | - | - |
| MILKFISH | OPELU | 22 | 10 | - | - |
| MOUNTAIN BASS | AWA | 43 | 13 | - | - |
| PARROT FISH | AHOLEHOLE | 186 | 160 | - | - |
| RED BIGEYE | UHU | 2,325 | 927 | 53 | 17 |
| RUDDERFISH | ANEOME | 177 | 86 | - | - |
| RUNNER | NENU | 2,037 | 1,075 | 2,900 | 760 |
| SARDINE | LAI | 78 | 23 | 56 | 15 |
| SNAPPER | MAKI AWA | 43 | 6 | - | - |
| SQUIRREL FISH | UKU | 124 | 44 | - | - |
| SURGEON FISH: | UU | 9 | 4 | - | - |
| | KALA | 4,923 | 1,090 | - | - |
| | MAIKO | 418 | 50 | - | - |
| TANG, CONVICT | PUALU | 15,444 | 4,418 | - | - |
| TENPOUNDER | MANINI | 1,492 | 748 | - | - |
| THREADFIN | AWAAMA | - | - | 18 | 5 |
| UNCLASSIFIED | MOI | 1,986 | 1,292 | 6,727 | 5,550 |
| OCTOPUS | HEE | 2,183 | 1,123 | 167 | 38 |
| | | 10 | 8 | - | - |
| TOTAL | | 79,542 | 33,042 | 221,171 | 126,304 |

| SPECIES | | POTS AND TRAPS | | GILL NETS, ANCHOR, SET OR STAKE | | LINES | |
|-------------------------------|------------------------|----------------|--------|---------------------------------|--------|---------|---------|
| ENGLISH | HAWAIIAN | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| AMBERJACK | KAHALA | 1,775 | \$674 | - | - | 6,318 | \$2,005 |
| BARRACUDA | KAKU | 10 | 8 | 75 | \$60 | 236 | 75 |
| BARRACUDA, JAPANESE | KAMELEA | - | - | 113 | 39 | 4,024 | 1,768 |
| BIGEYE SCAD | AKULE | 6 | 6 | 5,473 | 3,086 | 83,097 | 70,205 |
| BONEFISH | OIO | 67 | 34 | 1,501 | 465 | 7,224 | 2,934 |
| CREVALLE: | | | | | | | |
| BLUE | ULUA OMI LU | 1,977 | 1,175 | 443 | 309 | 1,173 | 708 |
| JACK | ULUA | 6,484 | 4,020 | 1,271 | 962 | 10,512 | 5,443 |
| DAMSEL FISH | KUPIPI | 748 | 217 | - | - | 146 | 80 |
| DOLPHIN | MAHI MAHI | - | - | - | - | 26,130 | 6,655 |
| EELS: | | | | | | | |
| CONGER | PUHI | 5,935 | 954 | - | - | 119 | 53 |
| MORAY | PUHI | 1,651 | 205 | - | - | 8 | 1 |
| GOATFISHES: | | | | | | | |
| | KUMU | 13,361 | 14,281 | 1,019 | 661 | 686 | 726 |
| | MALU | 3,265 | 1,925 | - | - | 15 | 7 |
| | MOANO | 10,842 | 6,217 | 50 | 20 | 1,760 | 1,136 |
| | MOELUA | - | - | - | - | 74 | 400 |
| | WEKE | 30,772 | 11,006 | 9,244 | 3,500 | 3,437 | 2,339 |
| | WEKE-ULUA | 4,318 | 2,977 | - | - | 4,098 | 1,987 |
| MACKEREL, JACK | OPELU | - | - | - | - | 120,143 | 54,303 |
| MARLIN, BLACK | A'U | - | - | - | - | 856 | 153 |
| MILKFISH | AWA | - | - | 3,184 | 790 | 6,634 | 3,331 |
| MOUNTAIN BASS | AHOLEHOLE | - | - | 3,966 | 2,487 | 433 | 294 |
| MULLET | AMAAMA | 551 | 493 | 17,619 | 12,309 | 74 | 63 |
| PARROT FISH | UHU | 1,861 | 805 | 109 | 35 | 731 | 310 |
| RED BIGEYE | ANEOME | 265 | 103 | 661 | 260 | 2,341 | 855 |
| RUDDERFISH | NENU | 33 | 12 | 62 | 24 | 856 | 365 |
| RUNNER | LAI | 2 | 1 | 433 | 136 | 53 | 21 |
| SARDINE | MAKI AWA | 176 | 25 | 15 | - | 191 | 48 |
| SEA BASS, BLACK | HAPUUPU | - | - | - | - | 223 | 106 |
| SNAPPER: | | | | | | | |
| GRAY | UKU | 807 | 377 | - | - | 6,218 | 2,690 |
| PINK | KALI KALI | 2 | 1 | - | - | 502 | 268 |
| PINK | OPAKAPAKA | 527 | 256 | - | - | 1,882 | 949 |
| RED | ULAU | - | - | - | - | 631 | 538 |
| RED | ULAU LA KOAE | - | - | - | - | 236 | 228 |
| SPOT | A'AWA | 140 | 23 | 2 | (1) | 1,025 | 178 |
| SQUIRREL FISH | UU | 1,985 | 1,518 | 948 | 684 | 9,684 | 6,984 |
| SURGEON FISH: | | | | | | | |
| | KALA | 5,287 | 320 | 2,248 | 335 | 32 | 10 |
| | MAIKO | 184 | 35 | - | - | - | - |
| | PALANI | 5,233 | 965 | 40 | 10 | 69 | 11 |
| | PUALU | 6,761 | 1,522 | 37 | 11 | 194 | 46 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

HAWAII FISHERIES

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HAWAII - CATCH BY GEAR, 1961 - Continued

| SPECIES | | POTS AND TRAPS | | GILL NETS, ANCHOR, SET OR STAKE | | LINES | |
|-----------------------|---------------------|----------------|---------|---------------------------------|--------|------------|-----------|
| | | | | | | HAND | |
| ENGLISH | HAWAIIAN | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| TANG: | | | | | | | |
| CONVICT | MANINI | 3,377 | \$1,493 | 261 | \$138 | 3 | \$1 |
| ORANGE SPOT | NAE'NAE | 733 | 111 | - | - | - | - |
| TENPOUNDER | AWA'AWA | 86 | 34 | 2 | 1 | 1,064 | 406 |
| THREADFIN | MOI | - | - | 4,203 | 2,946 | 658 | 698 |
| TRIGGERFISH | HUMUHUMU | 747 | 338 | - | - | 384 | 61 |
| TUNA: | | | | | | | |
| LITTLE | KAWAKAWA | - | - | - | - | 1,065 | 146 |
| SKIPJACK | AKU | - | - | - | - | 10,944,412 | 1,304,698 |
| YELLOWFIN | AHI | - | - | - | - | 56,459 | 10,021 |
| WAHOO | ONO | - | - | - | - | 203 | 36 |
| UNCLASSIFIED | | | | | | | |
| CRABS: | | 4,392 | 1,360 | 711 | 455 | 5,446 | 1,627 |
| | PAPAI | 4,574 | 1,372 | - | - | - | - |
| | KUAHONU | 94 | 52 | - | - | - | - |
| | OPIHI | - | - | 1 | 3 | - | - |
| LIMPETS | | | | | | | |
| LOBSTER: | | | | | | | |
| SLIPPER | ULAPAPAPA | 43 | 26 | - | - | - | - |
| SPINY | ULA | 5,636 | 3,814 | 6,856 | 4,638 | - | - |
| OCTOPUS | HEE | 1,389 | 756 | 216 | 184 | 106 | 62 |
| SQUID | MUHEE | - | - | - | - | 453 | 263 |
| TOTAL | | 126,086 | 59,511 | 60,765 | 34,552 | 11,315,246 | 1,486,312 |

| SPECIES | | LINES - CONTINUED | | | | LIFT NETS | |
|-------------------------------|-------------------------|-------------------|-------|------------------------|----------|-----------|--------|
| | | TROLL | | LONG OR SET WITH HOOKS | | | |
| ENGLISH | HAWAIIAN | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| AMBERJACK | KAHALA | - | - | 63,710 | \$18,365 | - | - |
| BARRACUDA | KAKU | 6 | \$3 | 2,185 | 553 | - | - |
| BARRACUDA, JAPANESE | KAWELEA | - | - | 346 | 142 | 31 | \$17 |
| BIG EYE SCAD | AKULE | - | - | 374 | 293 | - | - |
| BONEFISH | OIO | - | - | 2,132 | 910 | 2 | 1 |
| CREVALLE: | | | | | | | |
| BLUE | ULUA OMI'LU | - | - | 2,172 | 1,111 | 4 | 2 |
| JACK | ULUA | 110 | 41 | 46,213 | 16,796 | - | - |
| DOLPHIN | MAHIMAH I | 1,791 | 734 | 88,299 | 40,361 | - | - |
| EELS, CONGER | PUHI | - | - | 9 | 1 | - | - |
| GOATFISHES: | | | | | | | |
| | KUMU | - | - | 34 | 39 | - | - |
| | MOANO | - | - | 262 | 234 | - | - |
| | MOELUA | - | - | 2,345 | 1,383 | - | - |
| | WEKE | - | - | 424 | 250 | 98 | 50 |
| | WEKE-ULA | - | - | 6,756 | 5,033 | 1 | 1 |
| MACKEREL, JACK | OPELU | - | - | 98 | 54 | 83,712 | 29,902 |
| MARLIN: | | | | | | | |
| BLACK | AIU | 28,506 | 3,740 | 240,666 | 71,439 | - | - |
| SAILFISH | AIU LEPE | - | - | 4,578 | 616 | - | - |
| SILVER | AIU | 762 | 134 | 15,456 | 4,778 | - | - |
| STRIPED | AIU | 206 | 57 | 226,637 | 62,995 | - | - |
| MILKFISH | AWA | - | - | 295 | 102 | - | - |
| PARROT FISH | UHU | - | - | 465 | 230 | - | - |
| RED BIGEYE | AWEOWEO | - | - | 56 | 23 | - | - |
| RUDDERFISH | NENUE | - | - | 2 | 1 | - | - |
| SARDINE | MAKI'AWA | - | - | 233 | 50 | - | - |
| SEA BASS, BLACK | HAPU'U'U | - | - | 18,413 | 9,602 | - | - |
| SNAPPER: | | | | | | | |
| GRAY | UKU | - | - | 34,766 | 14,738 | - | - |
| PINK | KALI'KALI | - | - | 18,567 | 9,328 | - | - |
| PINK | OPAKAPAKA | - | - | 67,662 | 42,172 | - | - |
| RED | ULAU'ALA | - | - | 12,165 | 10,633 | - | - |
| RED | ULAU'ALA KOAE | - | - | 42,681 | 37,359 | - | - |
| SPOT | A'AWA | - | - | 100 | 20 | - | - |
| SQUIRREL FISH | UU | - | - | 296 | 228 | - | - |
| SURGEON FISH: | | | | | | | |
| | KALA | - | - | 113 | 32 | - | - |
| | PALANI | - | - | 47 | 10 | - | - |
| | PUALU | - | - | 531 | 114 | - | - |
| SWORDFISH | AIU | - | - | 22,744 | 4,341 | - | - |
| THREADFIN | MOI | - | - | 5 | 2 | - | - |
| TRIGGERFISH | HUMUHUMU | - | - | 4 | 1 | - | - |
| TUNA: | | | | | | | |
| ALBACORE | AHI PALAHA | - | - | 13,550 | 4,079 | - | - |
| BIG EYE AND BLUEFIN | AHI | 497 | 142 | 1,036,907 | 507,433 | - | - |
| LITTLE | KAWAKAWA | 121 | 38 | 821 | 168 | - | - |
| SKIPJACK | AKU | 4,775 | 1,396 | 2,141 | 641 | - | - |
| YELLOWFIN | AHI | 5,650 | 1,366 | 396,655 | 157,032 | - | - |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

HAWAII FISHERIES

HAWAII - CATCH BY GEAR, 1961 - Continued

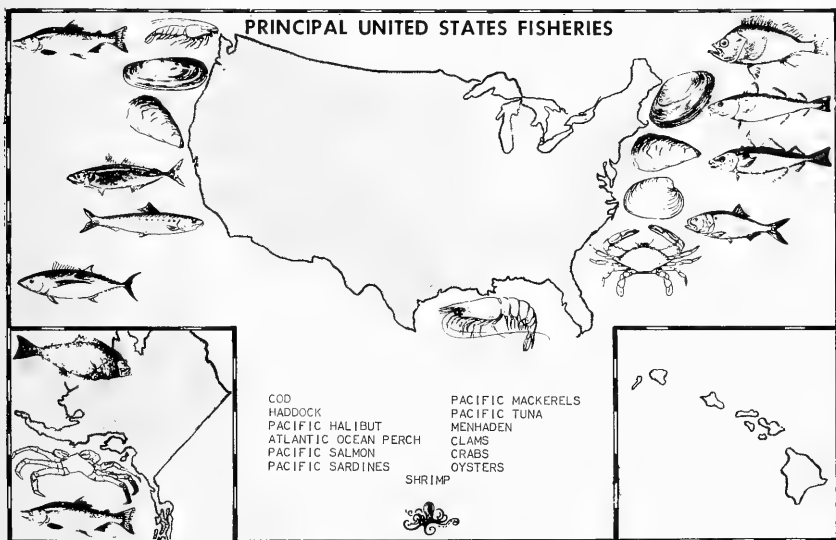
| SPECIES | | LINES - CONTINUED | | | | LIFT NETS | |
|--------------------------|-----------------------|--------------------|-------|------------------------|-----------|-------------------------|---------|
| | | TROLL | | LONG OR SET WITH HOOKS | | | |
| ENGLISH | HAWAIIAN | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| MAHOO | OWO | 1,278 | \$250 | 23,760 | \$4,764 | - | - |
| UNCLASSIFIED | " | 70 | 21 | 8,575 | 2,438 | 36 | \$12 |
| CRABS | KOHA | - | - | - | - | 17,729 | 13,123 |
| OCTOPUS | HEE | - | - | 118 | 53 | - | - |
| SQUID | MUHEE | - | - | 7 | 4 | - | - |
| TOTAL | | 43,792 | 7,922 | 2,424,605 | 1,031,199 | 101,613 | 43,108 |
| SPECIES | | CAST NETS | | SPEARS | | BY HAND | |
| ENGLISH | HAWAIIAN | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| GOATFISH | KUMU | 6 | \$6 | - | - | - | - |
| MOUNTAIN BASS | AHOLEHOLE | 40 | 20 | - | - | - | - |
| MULLT | AMAAMA | 36 | 25 | - | - | - | - |
| TANG, CONVICT | MANINI | 607 | 316 | - | - | - | - |
| THRCADFIN | MOI | 257 | 144 | - | - | - | - |
| UNCLASSIFIED | " | 115 | 72 | - | - | - | - |
| LIMPLT | OPHI | - | - | - | - | 2,144 | \$4,799 |
| LOBSTER, SPINY | ULA | - | - | - | - | 12 | 6 |
| OCTOPUS | HEE | - | - | 1,945 | \$1,261 | - | - |
| TOTAL | | 1,061 | 563 | 1,945 | 1,261 | 2,156 | 4,805 |
| SPECIES | | NETS, UNCLASSIFIED | | OTHER GEAR | | VARIOUS GEAR, FISH POND | |
| ENGLISH | HAWAIIAN | POUNDS | VALUE | POUNDS | VALUE | POUNDS | VALUE |
| AMBERJACK | KAHALA | 17 | \$4 | - | - | - | - |
| BARRACUDA | KAKU | - | - | - | - | 647 | \$480 |
| BONEFISH | OIO | 227 | 69 | - | - | 141 | 78 |
| CREVALLE: | | | | | | | |
| BLUE | ULUA OMI LU | - | - | - | - | 12 | 12 |
| JACK | ULUA | 367 | 162 | - | - | 1,719 | 1,643 |
| DAMSELFISH | KUPIPI | 16 | 7 | - | - | - | - |
| EELS: | | | | | | | |
| CONGER | PUHI | - | - | - | - | 18 | 3 |
| MORAY | PUHI | - | - | - | - | 22 | 4 |
| GOATFISHES: | | | | | | | |
| KUMU | KUMU | 25 | 9 | - | - | 5 | 5 |
| MOHO | MOHO | 133 | 59 | - | - | - | - |
| WEKE | WEKE | 2,861 | 1,390 | - | - | 91 | 33 |
| MILKFISH | AWA | 943 | 385 | - | - | 6,812 | 3,737 |
| MOUNTAIN BASS | AHOLEHOLE | 66 | 36 | - | - | 2,974 | 913 |
| MULLET | AMAAMA | 454 | 378 | - | - | 48,727 | 46,096 |
| PARROT FISH | UHU | 88 | 36 | - | - | - | - |
| RED BIGEYE | AWOOWO | 65 | 16 | - | - | - | - |
| RUDDERFISH | NENUU | 936 | 298 | - | - | - | - |
| RUNNER | LAI | - | - | - | - | 53 | 15 |
| SNAPPER: | | | | | | | |
| GRAY | UKU | 63 | 15 | - | - | - | - |
| PINK | KALIKALI | 2 | 1 | - | - | - | - |
| SPOT | A'AWA | 24 | 12 | - | - | - | - |
| SQUIRREL FISH | UU | 55 | 33 | - | - | - | - |
| SURGEON FISH: | | | | | | | |
| KALA | KALA | 277 | 86 | - | - | - | - |
| MAIKO | MAIKO | 36 | 14 | - | - | - | - |
| PALANI | PALANI | 4 | (1) | - | - | - | - |
| PUALU | PUALU | 1,963 | 331 | - | - | 320 | 80 |
| MA'INI | MA'INI | 1,358 | 846 | - | - | - | - |
| AWAWA | AWAWA | - | - | - | - | 1,116 | 507 |
| TANG, CONVICT | MOI | 47 | 47 | - | - | 655 | 656 |
| TENPOUNDER | " | - | - | - | - | 38 | 10 |
| THRCADFIN | " | - | - | - | - | - | - |
| TI LAPIA | " | - | - | - | - | 32 | 12 |
| UNCLASSIFIED | " | 4,450 | 2,399 | 3 | (1) | - | - |
| ALGAE | LIMU | - | - | 45 | \$56 | - | - |
| CLAMS, HARD | OLEPE | - | - | - | - | 36 | 51 |
| CRABS: | | | | | | | |
| PAPAI | PAPAI | - | - | - | - | 4,053 | 1,540 |
| MOALA | MOALA | - | - | - | - | 169 | 63 |
| SAMOAN | SAMOAN | - | - | - | - | 694 | 503 |
| KONA | KONA | 12 | 11 | - | - | - | - |
| KUAHONU | KUAHONU | - | - | - | - | 2,136 | 1,468 |
| LOBSTER, SPINY | ULA | 115 | 65 | - | - | - | - |
| OCTOPUS | HEE | 13 | 8 | - | - | - | - |
| SURIMP | OPAE | 212 | 268 | - | - | 6 | 9 |
| SQUID | MUHEE | - | - | 7,982 | 3,181 | - | - |
| TURTLES | HONU | - | - | 323 | 139 | - | - |
| TOTAL | | 14,829 | 7,025 | 8,353 | 3,376 | 70,470 | 57,938 |

1/ LESS THAN 50 CENTS.

NOTE:--THE WEIGHT OF MEATS FOR MOLLUSKS IS BASED ON A YIELD OF 25 PERCENT FOR HARD CLAMS AND 20 PERCENT FOR LIMPETS.

REVIEW OF CERTAIN MAJOR FISHERIES

There are presented in this Section of the Digest complete data on the catch of certain major species of fish and shellfish taken on a commercial scale in the United States. Additional information is presented on the operating units engaged in the menhaden purse seine, salmon troll, the shrimp and fish otter trawl, and the tuna fisheries. Although the data on catch are included in the detailed catch tables of the various States, they have been repeated in individual fishery tables in this portion of the report to provide readers with a single source of catch data for cod, haddock, halibut, Pacific mackerel, jack mackerel, menhaden, Atlantic ocean perch, Pacific sardines, salmon, tuna, oysters, clams, crabs, and shrimp. Most of the above species are taken by several types of fishing gear. Because of this, the casual reader of the Digest often experiences difficulty in locating complete data on the catch of the species in individual State catch tables. The information contained in this Section includes the volume and value of the catch by individual types of gear and by States and districts.



UNITED STATES COD FISHERY

In 1961, United States fishermen landed 49.7 million pounds of cod valued at \$3 million. This was an increase of 3.9 million pounds (9 percent) and \$186,000 (6 percent) compared with the catch of the previous year.

Otter trawls accounted for 81 percent of the catch; lines of all types, 14 percent; and gill nets, 5 percent. The remaining catch was taken in pound nets, floating traps, pots and traps, and dredges.

Landings at Massachusetts ports, amounting to 38 million pounds, accounted for 77 percent of the total catch. Washington was second with 3 million pounds, followed by Maine, 2.5 million pounds; and New Jersey, 2.4 million pounds. The remaining catch was landed in 8 other Atlantic and Pacific Coast States.

REVIEW OF CERTAIN MAJOR FISHERIES

SUMMARY OF COD CATCH, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| AREA AND STATE | OTTER TRAWLS | | POUND NETS | | FLOATING TRAPS | | | |
|--------------------------------|-------------------|-------|------------------------|-------|----------------|-------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | | |
| NEW ENGLAND: | | | | | | | | |
| MAINE | 1,163 | 50 | - | - | - | - | | |
| MASSACHUSETTS | 33,659 | 2,073 | 3 | (1) | 12 | 1 | | |
| RHODE ISLAND | 762 | 48 | - | - | 91 | 8 | | |
| CONNECTICUT | 364 | 23 | - | - | - | - | | |
| TOTAL | 35,948 | 2,194 | 3 | (1) | 103 | 9 | | |
| MIDDLE ATLANTIC: | | | | | | | | |
| NEW YORK | 2/816 | 2/ 73 | - | - | - | - | | |
| NEW JERSEY | 319 | 26 | - | - | - | - | | |
| TOTAL | 1,135 | 99 | - | - | - | - | | |
| CHESAPEAKE: | | | | | | | | |
| MARYLAND | 125 | 13 | - | - | - | - | | |
| VIRGINIA | (1) | (1) | - | - | - | - | | |
| TOTAL | 125 | 13 | - | - | - | - | | |
| PACIFIC: | | | | | | | | |
| WASHINGTON | 2,955 | 145 | - | - | - | - | | |
| OREGON | 104 | 5 | - | - | - | - | | |
| TOTAL | 3,059 | 150 | - | - | - | - | | |
| GRAND TOTAL | 40,267 | 2,456 | 3 | (1) | 103 | 9 | | |
| AREA AND STATE | POTS AND TRAPS | | GILL NETS | | LINES | | | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | | |
| NEW ENGLAND: | | | | | | | | |
| MAINE | - | - | 783 | 55 | 143 | 4 | | |
| MASSACHUSETTS | - | - | 1,556 | 94 | 752 | 49 | | |
| RHODE ISLAND | - | - | - | - | 117 | 7 | | |
| CONNECTICUT | - | - | - | - | 36 | 2 | | |
| TOTAL | - | - | 2,339 | 149 | 1,048 | 62 | | |
| MIDDLE ATLANTIC: | | | | | | | | |
| NEW YORK | - | - | - | - | 21 | 2 | | |
| NEW JERSEY | 1 | (1) | - | - | 5 | (1) | | |
| TOTAL | 1 | (1) | - | - | 26 | 2 | | |
| CHESAPEAKE, MARYLAND | - | - | - | - | 1 | (1) | | |
| PACIFIC, WASHINGTON | - | - | 8 | (1) | - | - | | |
| GRAND TOTAL | 1 | (1) | 2,347 | 149 | 1,075 | 64 | | |
| AREA AND STATE | LINES - CONTINUED | | | | DREDGES | | TOTAL | |
| | TROLL | | LONG OR SET WITH HOOKS | | QUANTITY | VALUE | QUANTITY | VALUE |
| NEW ENGLAND: | | | | | | | | |
| MAINE | - | - | 418 | 15 | - | - | 2,507 | 124 |
| NEW HAMPSHIRE | - | - | 30 | 2 | - | - | 30 | 2 |
| MASSACHUSETTS | - | - | 2,183 | 144 | 1 | (1) | 38,166 | 2,361 |
| RHODE ISLAND | - | - | 96 | 5 | - | - | 1,056 | 69 |
| CONNECTICUT | - | - | - | - | - | - | 400 | 25 |
| TOTAL | - | - | 2,727 | 167 | 1 | (1) | 42,169 | 2,581 |
| MIDDLE ATLANTIC: | | | | | | | | |
| NEW YORK | - | - | 329 | 29 | - | - | 1,166 | 104 |
| NEW JERSEY | (1) | (1) | 2,080 | 207 | - | - | 2,405 | 233 |
| DELAWARE | - | - | 32 | 3 | - | - | 32 | 3 |
| TOTAL | (1) | (1) | 2,441 | 239 | - | - | 3,603 | 340 |
| CHESAPEAKE: | | | | | | | | |
| MARYLAND | - | - | 663 | 58 | - | - | 789 | 71 |
| VIRGINIA | - | - | 30 | 3 | - | - | 30 | 3 |
| TOTAL | - | - | 693 | 61 | - | - | 819 | 74 |
| PACIFIC: | | | | | | | | |
| WASHINGTON | (1) | (1) | - | - | - | - | 2,963 | 145 |
| OREGON | - | - | - | - | - | - | 104 | 5 |
| TOTAL | (1) | (1) | - | - | - | - | 3,067 | 150 |
| GRAND TOTAL | (1) | (1) | 5,861 | 467 | 1 | (1) | 49,658 | 3,145 |

1/ LESS THAN 500 POUNDS OR \$500.

2/ INCLUDES A SMALL CATCH TAKEN WITH HAUL SEINES.

REVIEW OF CERTAIN MAJOR FISHERIES

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ATLANTIC COAST HADDOCK FISHERY

The 1961 commercial catch of haddock totaled 133.6 million pounds valued at \$10 million. This was an increase of almost 15 million pounds or 13 percent and \$509,000 or 5 percent compared with 1960. The average price paid for haddock declined slightly from 7.9 cents per pound in 1960 to 7.4 cents in 1961.

Landings of haddock at Massachusetts ports (130.5 million pounds) were the largest since 1956 and accounted for 98 percent of the 1961 United States catch of this species. The catch by otter trawls comprised 98 percent of the total haddock production. The remaining 2 percent was taken with gill nets and lines.

About 85 percent of the catch was taken from waters off New England--principally in the Georges Bank and South Channel areas. Waters off Nova Scotia accounted for about 15 percent.



SUMMARY OF HADDOCK CATCH, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| AREA AND STATE | OTTER TRAWLS | | GILL NETS | |
|-------------------------|--------------|------------------|-----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE |
| NEW ENGLAND: | | | | |
| MAINE | 2,621 | 197 | 150 | 15 |
| MASSACHUSETTS | 127,685 | 9,424 | 161 | 14 |
| RHODE ISLAND | 64 | 4 | - | - |
| CONNECTICUT | 18 | 1 | - | - |
| TOTAL | 130,388 | 9,626 | 331 | 29 |
| MIDDLE ATLANTIC: | | | | |
| NEW YORK | 60 | (1) ⁶ | - | - |
| NEW JERSEY | 1 | - | - | - |
| TOTAL | 61 | 6 | - | - |
| GRAND TOTAL | 130,449 | 9,632 | 331 | 29 |

| AREA AND STATE | LINES | | | | TOTAL | |
|-------------------------|----------|-------|------------------------|-------|----------|------------------|
| | HAND | | LONG OR SET WITH HOOKS | | | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| NEW ENGLAND: | | | | | | |
| MAINE | 1 | (1) | 168 | 15 | 2,940 | 227 |
| NEW HAMPSHIRE | - | - | 35 | 3 | 35 | 3 |
| MASSACHUSETTS | 220 | 15 | 2,392 | 213 | 130,478 | 9,666 |
| RHODE ISLAND | - | - | - | - | 64 | 4 |
| CONNECTICUT | 1 | (1) | - | - | 19 | 1 |
| TOTAL | 222 | 15 | 2,595 | 231 | 133,536 | 9,901 |
| MIDDLE ATLANTIC: | | | | | | |
| NEW YORK | - | - | - | - | 60 | 6 |
| NEW JERSEY | - | - | - | - | 1 | (1) ⁶ |
| TOTAL | - | - | - | - | 61 | 6 |
| GRAND TOTAL | 222 | 15 | 2,595 | 231 | 133,597 | 9,907 |

1/ LESS THAN \$500.

REVIEW OF CERTAIN MAJOR FISHERIES

PACIFIC COAST HALIBUT FISHERY

The halibut fishery of the United States and Canada in the Northwest Pacific Ocean and Bering Sea is managed by the International Pacific Halibut Commission. Under regulation, the fishery, which had declined to an unprofitable state, has been restored to a highly profitable condition.

The total catch in 1961 by United States and Canadian fishermen amounted to 69.5 million pounds (dressed weight). The catch was approximately 2.4 million pounds less than the record 72 million pounds taken in 1960. Contributing to the decline was the elimination of the second fishing season in area 2. This short postseason in area 2 usually yields about half the amount of the 1961 decline. United States fishermen accounted for 40 million pounds or 58 percent of the 1961 total production. Canadian fishermen, reversing a recent growth trend, were not so successful as in the previous year when they accounted for 47 percent of the catch.

In 1961, the former Area 3B was divided into north and south sections both without catch limit restrictions. Area 3B (north) opened April 10 while Area 3B (south) opened April 25. All other areas opened on May 10. Area 3A closed to halibut fishing on August 23, followed by Areas 2 and 1B on September 7, and Areas 1A and 3B on October 1.

Data on the landings of halibut in the following tables represent the dressed weight of fish, i.e., the weight by which the quota is determined. The dressed weight of halibut can be converted to round weight by multiplying by 1.33. Halibut landed in Canada by vessels of United States registry is credited to Alaska.

SUMMARY OF UNITED STATES HALIBUT FLEET OPERATING UNITS, 1961

| ITEM | WASHINGTON AND OREGON FLEET | ALASKA FLEET | TOTAL, EXCLUSIVE OF DUPLICATION |
|--|-----------------------------|--------------|---------------------------------|
| | NUMBER | NUMBER | NUMBER |
| REGULAR HALIBUT VESSELS: | | | |
| NUMBER | 121 | 265 | 327 |
| GROSS TONNAGE | 5,460 | 8,691 | 10,264 |
| CREW | 682 | 1,245 | 1,460 |
| SKATES OF LINES | 4,627 | 8,724 | 9,931 |
| REGULAR HALIBUT: | | | |
| NUMBER | - | 29 | 29 |
| CREW | - | 46 | 46 |
| SKATES OF LINES | - | 175 | 175 |
| BOATS PRIMARILY IN OTHER FISHERIES BUT LANDING SMALL FARES OF HALIBUT 1/2: | | | |
| NUMBER | - | 56 | 56 |
| CREW | - | 84 | 84 |
| SKATES OF LINES | - | 290 | 290 |

1/ DOES NOT INCLUDE TROLLERS OR OTHER BOATS CATCHING HALIBUT INCIDENTAL TO OTHER FISHING OPERATIONS.

NOTE:--UNITED STATES VESSELS LANDING HALIBUT AT PRINCE RUPERT, BRITISH COLUMBIA, HAVE BEEN INCLUDED WITH THOSE LANDING IN ALASKA.

CATCH BY UNITED STATES HALIBUT FLEET, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | LANDED IN | | | | | | TOTAL | |
|----------------------|-----------------------|-------|------------------|-------|----------|-------|----------|-------|
| | WASHINGTON AND OREGON | | BRITISH COLUMBIA | | ALASKA | | QUANTITY | VALUE |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | | |
| HALIBUT | 14,895 | 3,518 | 1,755 | 380 | 23,375 | 4,498 | 40,025 | 8,396 |
| SABLEFISH | 1,934 | 377 | (1) | (1) | 935 | 160 | 2,869 | 537 |
| LINGCOD | 33 | 2 | - | - | 1 | (1) | 34 | 2 |
| ROCKFISHES | 83 | 4 | - | - | 5 | (1) | 88 | 4 |
| TOTAL | 16,945 | 3,901 | 1,755 | 380 | 24,316 | 4,658 | 43,016 | 8,939 |

1/ LESS THAN 500 POUNDS OR \$500.

NOTE:--IN ADDITION THERE WERE APPROXIMATELY 40,000 POUNDS OF "NORTHERN" HALIBUT LANDED IN CALIFORNIA. MOST OF THIS CATCH WAS INCLUDED UNDER "CALIFORNIA HALIBUT" AND "UNCLASSIFIED FLOUNDERS." LANDINGS OF HALIBUT LIVERS DURING 1961 AMOUNTED TO 43,934 POUNDS VALUED AT \$9,618. LANDINGS OF HALIBUT VISCERA TOTALED 14,138 POUNDS VALUED AT \$1,060. THE QUANTITIES SHOWN ABOVE REPRESENT DRESSED WEIGHT OF FISH. TO CONVERT TO ROUND WEIGHT, MULTIPLY THE WEIGHT OF HALIBUT BY 1.33 AND OTHER SPECIES BY 1.43.

REVIEW OF CERTAIN MAJOR FISHERIES

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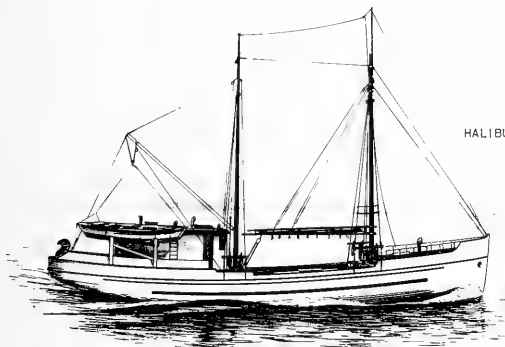
SUMMARY OF UNITED STATES AND CANADIAN HALIBUT CATCH, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | LANDED IN | | | | | | TOTAL | |
|----------------------------|-----------------------|-------|------------------|-------|----------|-------|----------|--------|
| | WASHINGTON AND OREGON | | BRITISH COLUMBIA | | ALASKA | | | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| UNITED STATES FLEET 1/ . . | 14,895 | 3,518 | 1,755 | 380 | 23,375 | 4,498 | 40,025 | 8,396 |
| BRITISH COLUMBIA FLEET . . | 1,913 | 490 | 24,914 | 5,307 | 2,639 | 452 | 29,466 | 6,249 |
| TOTAL | 16,808 | 4,008 | 26,669 | 5,687 | 26,014 | 4,950 | 69,491 | 14,645 |

1/ IN ADDITION THERE WERE APPROXIMATELY 40,000 POUNDS OF "NORTHERN" HALIBUT LANDED IN CALIFORNIA. MOST OF THIS CATCH WAS INCLUDED UNDER "CALIFORNIA HALIBUT" AND "UNCLASSIFIED FLOUNDERS."

NOTE:--HALIBUT STATISTICS IN THESE TABLES WERE COMPILED FROM DATA COLLECTED BY THE INTERNATIONAL PACIFIC HALIBUT COMMISSION. STATISTICS FOR OTHER SPECIES WERE FURNISHED BY THE STATES.



HALIBUT SCHOONER

ATLANTIC OCEAN PERCH FISHERY

The catch of Atlantic ocean perch in 1961 totaled 132 million pounds valued at \$5 million. This was a decrease of 9.4 million pounds and \$306,000 (down 7 percent in volume and 6 percent in value compared with 1960) and the lowest catch since 1945.

Except for a negligible amount taken with longlines, the fish were captured by Maine and Massachusetts otter trawlers. The Maine production accounted for 77.4 million pounds and \$2.9 million--59 percent and 58 percent, respectively, of the total volume and value of the ocean perch catch.

Ocean perch were caught in greatest volume on the Nova Scotia banks, which yielded 63.8 million pounds or 48 percent of the entire catch. The Grand Bank was next with 36.8 million pounds or 28 percent. The remainder of the catch was taken off the New England Coast or in the Gulf of St. Lawrence.

The ocean perch fishery reached its height in 1951 when 258 million pounds were taken. The following year marked the launching of the last new vessel to enter the ocean perch fleet. Since that year there has been a gradual decline in the size of the fleet and the catch. This downward trend has developed chiefly because of low prices, scarcity of ocean perch in areas readily available to smaller craft, and fewer vessels capable of reaching distant fishing grounds.

REVIEW OF CERTAIN MAJOR FISHERIES

PACIFIC COAST SALMON FISHERY

The 1961 commercial salmon catch in the Pacific Coast States totaled 310 million pounds valued at \$52 million--an increase of 75 million pounds and \$7 million over the previous year. The Alaska catch (265 million pounds valued at \$36 million) was up 28 percent in volume and 7 percent in value. Washington landings of 30 million pounds increased 13 million pounds or 81 percent, while the value (\$9 million) was up 59 percent over 1960. In both Oregon (7 million pounds) and California (9 million pounds), production was about 2 million pounds over the previous year.

The catch of red salmon in Western Alaska was the best since 1948, with the total run amounting to nearly 22 million fish. Red salmon averaged 5.9 pounds per fish in Western Alaska compared with 4.8 pounds in 1960. Purse seines were the most important gear used in taking salmon, accounting for 147 million pounds (47 percent) of the total catch. Gill nets were second with nearly 130 million pounds (42 percent). The remaining 11 percent was taken by lines, floating traps, haul seines, reef nets, pound nets, dip nets, and wheels.



SUMMARY OF PACIFIC COAST SALMON TROLL LINE OPERATING UNITS, 1961

| ITEM | ALASKA | WASH- INGTON | OREGON | CALI- FORNIA | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|-------------------------------|--------|-----------------|--------|-----------------|--|
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | |
| ON VESSELS | 614 | 952 | 606 | 1,779 | 3,623 |
| ON BOATS AND SHORE | 960 | 818 | 431 | 1,669 | 3,898 |
| TOTAL | 1,794 | 1,770 | 1,037 | 3,448 | 7,521 |
| VESSLS, MOTOR: | | | | | |
| 5 - 9 TONS | 217 | 164 | 85 | 120 | 533 |
| 10 - 19 TONS | 355 | 329 | 192 | 432 | 1,126 |
| 20 - 29 TONS | 80 | 83 | 60 | 152 | 306 |
| 30 - 39 TONS | 20 | 31 | 13 | 60 | 98 |
| 40 - 49 TONS | 7 | 2 | 2 | 12 | 19 |
| 50 - 59 TONS | - | - | 1 | 1 | 2 |
| 60 - 69 TONS | 1 | 1 | 1 | - | 3 |
| 70 - 79 TONS | - | - | 1 | - | 1 |
| 80 - 89 TONS | - | 1 | - | - | 1 |
| 100 - 109 TONS | - | - | - | 1 | 1 |
| TOTAL VESSELS | 680 | 611 | 355 | 778 | 2,090 |
| TOTAL GROSS TONNAGE | 9,392 | 9,069 | 5,406 | 13,180 | 31,381 |
| BOATS, MOTOR | 831 | 690 | 359 | 954 | 2,834 |
| GEAR: | | | | | |
| NUMBER OF LINES | 6,036 | 5,936 | 3,366 | 9,474 | 22,862 |
| HOOKS | 37,281 | 23,698 | 14,334 | 37,896 | 104,757 |

REVIEW OF CERTAIN MAJOR FISHERIES

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SALMON CATCH BY DISTRICT AND GEAR, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| GEAR AND SPECIES | ALASKA | | | | | | | |
|-----------------------------------|--------------|-------|------------------|-------|----------------|-------|----------|-------|
| | SOUTHEASTERN | | CENTRAL | | WESTERN | | TOTAL | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| PURSE SEINES: | | | | | | | | |
| CHINOOK OR KING | 98 | | 23 | | 5 | | 126 | |
| CHUM OR KETA | 20,043 | | 12,309 | | 800 | | 33,152 | |
| PINK | 56,850 | | 36,526 | | 442 | | 93,818 | |
| RED OR SOCKEYE | 2,722 | | 5,144 | | 180 | | 8,046 | |
| SILVER OR COHO | 2,299 | | 322 | | 3 | | 2,624 | |
| TOTAL | 82,012 | | 54,324 | | 1,430 | | 137,766 | |
| FLOATING TRAPS: | | | | | | | | |
| CHINOOK OR KING | 1 | | - | | - | | 1 | |
| CHUM OR KETA | 392 | | - | | - | | 392 | |
| PINK | 4,796 | | - | | - | | 4,796 | |
| RED OR SOCKEYE | 119 | | - | | - | | 119 | |
| SILVER OR COHO | 85 | | - | | - | | 85 | |
| TOTAL | 5,393 | | - | | - | | 5,393 | |
| GILL NETS, DRIFT: | | | | | | | | |
| CHINOOK OR KING | 309 | | 192 | | 2,240 | | 2,741 | |
| CHUM OR KETA | 2,504 | | 2,449 | | 5,083 | | 10,036 | |
| PINK | 1,813 | | 118 | | 2 | | 1,933 | |
| RED OR SOCKEYE | 1,291 | | 8,326 | | 67,359 | | 76,976 | |
| SILVER OR COHO | 815 | | 1,840 | | 211 | | 2,866 | |
| TOTAL | 6,732 | | 12,925 | | 74,895 | | 94,552 | |
| GILL NETS, SET: | | | | | | | | |
| CHINOOK OR KING | 46 | | 414 | | 2,650 | | 3,110 | |
| CHUM OR KETA | 156 | | 1,425 | | 937 | | 2,518 | |
| PINK | 366 | | 2,434 | | 91 | | 2,891 | |
| RED OR SOCKEYE | 613 | | 4,662 | | 4,803 | | 10,078 | |
| SILVER OR COHO | 1,088 | | 677 | | 447 | | 2,212 | |
| TOTAL | 2,269 | | 9,612 | | 8,928 | | 20,809 | |
| LINES, TROLL: | | | | | | | | |
| CHINOOK OR KING | 2,517 | | 5 | | - | | 2,522 | |
| CHUM OR KETA | 23 | | - | | - | | 23 | |
| PINK | 98 | | 1 | | - | | 99 | |
| RED OR SOCKEYE | 9 | | 1 | | - | | 10 | |
| SILVER OR COHO | 3,512 | | 87 | | - | | 3,599 | |
| TOTAL | 6,159 | | 94 | | - | | 6,253 | |
| WHEELS, CHINOOK OR KING | - | | - | | 41 | | 41 | |
| GRAND TOTAL | 102,565 | | 76,955 | | 85,294 | | 264,814 | |
| GEAR AND SPECIES | WASHINGTON | | | | | | | |
| | PUGET SOUND | | WASHINGTON COAST | | COLUMBIA RIVER | | TOTAL | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| HAUL SEINES: | | | | | | | | |
| CHINOOK OR KING | 146 | 51 | - | - | - | - | 146 | 51 |
| CHUM OR KETA | 23 | 4 | - | - | - | - | 23 | 4 |
| PINK | 528 | 85 | - | - | - | - | 528 | 85 |
| SILVER OR COHO | 153 | 43 | - | - | - | - | 153 | 43 |
| TOTAL | 850 | 183 | - | - | - | - | 850 | 183 |
| PURSE SEINES: | | | | | | | | |
| CHINOOK OR KING | 385 | 96 | - | - | - | - | 385 | 96 |
| CHUM OR KETA | 648 | 143 | - | - | - | - | 648 | 143 |
| PINK | 2,395 | 388 | - | - | - | - | 2,395 | 388 |
| RED OR SOCKEYE | 4,798 | 1,564 | - | - | - | - | 4,798 | 1,564 |
| SILVER OR COHO | 989 | 276 | - | - | - | - | 989 | 276 |
| TOTAL | 9,215 | 2,467 | - | - | - | - | 9,215 | 2,467 |

SEE FOOTNOTE AT END OF TABLE

(CONTINUED ON NEXT PAGE)

REVIEW OF CERTAIN MAJOR FISHERIES

SALMON CATCH BY DISTRICT AND GEAR, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| GEAR AND SPECIES | WASHINGTON | | | | | | | |
|---------------------------|-------------|-------|------------------|-------|----------------|-------|----------|-------|
| | PUGET SOUND | | WASHINGTON COAST | | COLUMBIA RIVER | | TOTAL | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| POUND NETS: | | | | | | | | |
| CHINOOK OR KING | 116 | 41 | - | - | 35 | 4 | 151 | 45 |
| CHUM OR KETA | 2 | (1) | - | - | - | - | 2 | (1) |
| PINK | 205 | 33 | - | - | - | - | 205 | 33 |
| RED OR SOCKEYE | 1 | 1 | - | - | - | - | 1 | 1 |
| SILVER OR COHO | 117 | 33 | - | - | (1) | (1) | 117 | 33 |
| TOTAL | 441 | 108 | - | - | 35 | 4 | 476 | 112 |
| GILL NETS: | | | | | | | | |
| CHINOOK OR KING | 911 | 335 | 498 | 183 | 1,248 | 462 | 2,657 | 980 |
| CHUM OR KETA | 830 | 169 | 460 | 83 | 5 | 1 | 1,295 | 253 |
| PINK | 1,147 | 192 | (1) | (1) | - | - | 1,147 | 192 |
| RED OR SOCKEYE | 2,826 | 922 | 152 | 78 | 53 | 21 | 3,031 | 1,021 |
| SILVER OR COHO | 2,035 | 600 | 1,011 | 301 | 105 | 28 | 3,151 | 929 |
| TOTAL | 7,749 | 2,218 | 2,121 | 645 | 1,411 | 512 | 11,281 | 3,375 |
| LINES: | | | | | | | | |
| CHINOOK OR KING | 1,059 | 507 | 1,311 | 638 | 175 | 84 | 2,545 | 1,229 |
| CHUM OR KETA | 1 | (1) | (1) | (1) | - | (1) | 1 | (1) |
| PINK | 343 | 86 | 106 | 21 | (1) | (1) | 449 | 107 |
| RED OR SOCKEYE | 6 | 2 | (1) | (1) | - | - | 6 | 2 |
| SILVER OR COHO | 1,764 | 543 | 1,553 | 478 | 863 | 258 | 4,160 | 1,279 |
| TOTAL | 3,173 | 1,138 | 2,970 | 1,137 | 1,038 | 342 | 7,181 | 2,617 |
| DIP NETS: | | | | | | | | |
| CHINOOK OR KING | - | - | - | - | 103 | 36 | 103 | 36 |
| RED OR SOCKEYE | - | - | - | - | (1) | (1) | (1) | (1) |
| SILVER OR COHO | - | - | - | - | 7 | 2 | 7 | 2 |
| TOTAL | - | - | - | - | 110 | 38 | 110 | 38 |
| REEF NETS: | | | | | | | | |
| CHINOOK OR KING | 23 | 6 | - | - | - | - | 23 | 6 |
| CHUM OR KETA | 20 | 4 | - | - | - | - | 20 | 4 |
| PINK | 191 | 31 | - | - | - | - | 191 | 31 |
| RED OR SOCKEYE | 473 | 154 | - | - | - | - | 473 | 154 |
| SILVER OR COHO | 78 | 22 | - | - | - | - | 78 | 22 |
| TOTAL | 785 | 217 | - | - | - | - | 785 | 217 |
| GRAND TOTAL | 22,213 | 6,331 | 5,091 | 1,782 | 2,594 | 896 | 29,898 | 9,009 |

| GEAR AND SPECIES | OREGON | | | | | |
|---------------------------|----------------|-------|--------------|-------|----------|-------|
| | COLUMBIA RIVER | | OREGON COAST | | TOTAL | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| GILL NETS: | | | | | | |
| CHINOOK OR KING | 2,797 | 1,035 | 10 | 3 | 2,807 | 1,038 |
| CHUM OR KETA | 12 | 2 | 17 | 2 | 29 | 4 |
| RED OR SOCKEYE | 106 | 43 | - | - | 106 | 43 |
| SILVER OR COHO | 275 | 75 | 11 | 3 | 286 | 78 |
| TOTAL | 3,190 | 1,155 | 38 | 8 | 3,228 | 1,163 |
| LINES: | | | | | | |
| CHINOOK OR KING | 115 | 56 | 1,299 | 655 | 1,414 | 711 |
| PINK | (1) | (1) | (1) | (1) | (1) | (1) |
| SILVER OR COHO | 435 | 132 | 1,881 | 555 | 2,316 | 687 |
| TOTAL | 550 | 188 | 3,180 | 1,210 | 3,730 | 1,398 |
| DIP NETS: | | | | | | |
| CHINOOK OR KING | 69 | 18 | - | - | 69 | 18 |
| CHUM OR KETA | (1) | (1) | - | - | (1) | (1) |
| SILVER OR COHO | 1 | (1) | - | - | 1 | (1) |
| TOTAL | 90 | 16 | - | - | 90 | 18 |
| GRAND TOTAL | 3,830 | 1,361 | 3,218 | 1,218 | 7,048 | 2,579 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

REVIEW OF CERTAIN MAJOR FISHERIES

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SALMON CATCH BY DISTRICT AND GEAR, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| GEAR AND SPECIES | CALIFORNIA | | | | | |
|---------------------------|------------|-------|---------------|-------|----------|-------|
| | NORTHERN | | SAN FRANCISCO | | MONTEREY | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| LINES: | | | | | | |
| CHINOOK OR KING | 3,660 | 1,972 | 3,642 | 2,092 | 652 | 363 |
| SILVER OR COHO | 475 | 166 | 60 | 21 | 2 | 1 |
| TOTAL | 4,135 | 2,138 | 3,702 | 2,113 | 654 | 364 |

| GEAR AND SPECIES | CALIFORNIA - CONTINUED | | | | | |
|---------------------------|------------------------|-------|-----------|-------|----------|-------|
| | SANTA BARBARA | | SAN PEDRO | | TOTAL | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| LINES: | | | | | | |
| CHINOOK OR KING | 134 | 76 | 13 | 7 | 8,101 | 4,510 |
| SILVER OR COHO | (1) | (1) | - | - | 537 | 188 |
| TOTAL | 134 | 76 | 13 | 7 | 8,638 | 4,698 |

1/ LESS THAN 500 POUNDS OR \$500.

NOTE:--IN ALASKA, THE CATCH TAKEN BY HAUL SEINES IS INCLUDED WITH THAT TAKEN BY PURSE SEINES.

SUMMARY OF SALMON CATCH BY DISTRICTS, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | ALASKA | | | | | | | |
|---------------------------|--------------|--------|----------|-------|----------|--------|----------|--------|
| | SOUTHEASTERN | | CENTRAL | | WESTERN | | TOTAL | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| CHINOOK OR KING | 2,971 | 1,255 | 634 | 151 | 4,936 | 837 | 8,541 | 2,243 |
| CHUM OR KETA | 23,118 | 2,126 | 16,183 | 1,166 | 6,820 | 554 | 46,121 | 3,846 |
| PINK | 63,923 | 6,337 | 39,079 | 3,738 | 535 | 40 | 103,537 | 10,115 |
| RED OR SOCKEYE | 4,754 | 1,239 | 18,133 | 3,995 | 72,342 | 12,305 | 95,229 | 17,539 |
| SILVER OR COHO | 7,799 | 1,526 | 2,926 | 414 | 661 | 58 | 11,386 | 1,998 |
| TOTAL | 102,565 | 12,483 | 76,955 | 9,464 | 85,294 | 13,794 | 264,814 | 35,741 |

| SPECIES | WASHINGTON | | | | | | | |
|---------------------------|-------------|-------|------------------|-------|----------------|-------|----------|-------|
| | PUGET SOUND | | WASHINGTON COAST | | COLUMBIA RIVER | | TOTAL | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| CHINOOK OR KING | 2,640 | 1,036 | 1,809 | 821 | 1,561 | 586 | 6,010 | 2,443 |
| CHUM OR KETA | 1,524 | 320 | 460 | 83 | (1) | 5 | 1,989 | 404 |
| PINK | 4,809 | 815 | 106 | 21 | (1) | (1) | 4,915 | 836 |
| RED OR SOCKEYE | 8,104 | 2,643 | 152 | 78 | 53 | 21 | 8,309 | 2,742 |
| SILVER OR COHO | 5,136 | 1,517 | 2,564 | 779 | 975 | 288 | 6,675 | 2,584 |
| TOTAL | 22,213 | 6,331 | 5,091 | 1,782 | 2,594 | 896 | 29,898 | 9,009 |

| SPECIES | OREGON | | | | | |
|---------------------------|----------------|-------|--------------|-------|----------|-------|
| | COLUMBIA RIVER | | OREGON COAST | | TOTAL | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| CHINOOK OR KING | 3,001 | 1,109 | 1,309 | 658 | 4,310 | 1,767 |
| CHUM OR KETA | 12 | 2 | 17 | 2 | 29 | 4 |
| PINK | (1) | (1) | (1) | (1) | (1) | (1) |
| RED OR SOCKEYE | 106 | 43 | - | - | 106 | 43 |
| SILVER OR COHO | 711 | 207 | 1,892 | 558 | 2,603 | 765 |
| TOTAL | 3,830 | 1,361 | 3,218 | 1,218 | 7,048 | 2,579 |

| SPECIES | CALIFORNIA | | | | | |
|---------------------------|------------|-------|---------------|-------|----------|-------|
| | NORTHERN | | SAN FRANCISCO | | MONTEREY | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| CHINOOK OR KING | 3,660 | 1,972 | 3,642 | 2,092 | 652 | 363 |
| SILVER OR COHO | 475 | 166 | 60 | 21 | 2 | 1 |
| TOTAL | 4,135 | 2,138 | 3,702 | 2,113 | 654 | 364 |

| SPECIES | CALIFORNIA - CONTINUED | | | | | |
|---------------------------|------------------------|-------|-----------|-------|----------|-------|
| | SANTA BARBARA | | SAN PEDRO | | TOTAL | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| CHINOOK OR KING | 134 | 76 | 13 | 7 | 8,101 | 4,510 |
| SILVER OR COHO | (1) | (1) | - | - | 537 | 188 |
| TOTAL | 134 | 76 | 13 | 7 | 8,638 | 4,698 |

1/ LESS THAN 500 POUNDS OR \$500.

REVIEW OF CERTAIN MAJOR FISHERIES

SUMMARY OF SALMON CATCH BY GEAR, 1961

(THOUSANDS OF POUNDS)

| STATE AND DISTRICT | HAUL SEINES | PURSE SEINES | POUND NETS | FLOATING TRAPS | GILL NETS |
|----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | <u>QUANTITY</u> | <u>QUANTITY</u> | <u>QUANTITY</u> | <u>QUANTITY</u> | <u>QUANTITY</u> |
| ALASKA: | | | | | |
| SOUTHEASTERN | - | 82,012 | - | 5,393 | 9,001 |
| CENTRAL | - | 54,324 | - | - | 22,537 |
| WESTERN | - | 1,430 | - | - | 83,823 |
| TOTAL | - | 137,766 | - | 5,393 | 115,361 |
| WASHINGTON: | | | | | |
| PUGET SOUND | 850 | 9,215 | 441 | - | 7,749 |
| WASHINGTON COAST | - | - | - | - | 2,121 |
| COLUMBIA RIVER | - | - | 35 | - | 1,411 |
| TOTAL | 850 | 9,215 | 476 | - | 11,281 |
| OREGON: | | | | | |
| COLUMBIA RIVER | - | - | - | - | 3,190 |
| OREGON COAST | - | - | - | - | 38 |
| TOTAL | - | - | - | - | 3,228 |
| GRAND TOTAL | 850 | 146,981 | 476 | 5,393 | 129,870 |

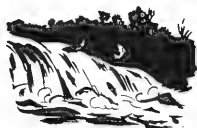
| STATE AND DISTRICT | LINES | DIP NETS | REEF NETS | FISH WHEELS | TOTAL |
|----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | <u>QUANTITY</u> | <u>QUANTITY</u> | <u>QUANTITY</u> | <u>QUANTITY</u> | <u>QUANTITY</u> |
| ALASKA: | | | | | |
| SOUTHEASTERN | 6,159 | - | - | - | 102,565 |
| CENTRAL | 94 | - | - | - | 76,955 |
| WESTERN | - | - | - | 41 | 85,294 |
| TOTAL | 6,253 | - | - | 41 | 264,814 |
| WASHINGTON: | | | | | |
| PUGET SOUND | 3,173 | - | 785 | - | 22,213 |
| WASHINGTON COAST | 2,970 | - | - | - | 5,091 |
| COLUMBIA RIVER | 1,038 | 110 | - | - | 2,594 |
| TOTAL | 7,181 | 110 | 785 | - | 29,898 |
| OREGON: | | | | | |
| COLUMBIA RIVER | 550 | 90 | - | - | 3,830 |
| OREGON COAST | 3,180 | - | - | - | 3,218 |
| TOTAL | 3,730 | 90 | - | - | 7,048 |
| CALIFORNIA: | | | | | |
| NORTHERN | 4,135 | - | - | - | 4,135 |
| SAN FRANCISCO | 3,702 | - | - | - | 3,702 |
| MONTEREY | 654 | - | - | - | 654 |
| SANTA BARBARA | 134 | - | - | - | 134 |
| SAN PEDRO | 13 | - | - | - | 13 |
| TOTAL | 8,638 | - | - | - | 8,638 |
| GRAND TOTAL | 25,802 | 200 | 785 | 41 | 310,398 |



SUMMARY OF SALMON CATCH BY SPECIES, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | QUANTITY | VALUE |
|---------------------------|----------|--------|
| CHINOOK OR KING | 25,962 | 10,963 |
| CHUM OR KETA | 48,139 | 4,254 |
| PINK | 108,452 | 10,951 |
| RED OR SOCKEYE | 103,644 | 20,324 |
| SILVER OR COHO | 23,201 | 5,535 |
| TOTAL | 310,398 | 52,027 |



PACIFIC COAST SARDINE FISHERY

The scant 43 million pounds of sardines taken during 1961 was a marked decline from the 58 million pounds in 1960 and the average of nearly 109 million pounds during the previous decade. Sardines failed to appear in appreciable quantities throughout the year; and in addition, rough weather, heavy rain, and fog hampered operations through the late fall and winter.

Few straight catches of sardines were made, and most landings consisted of trips with 30-40 percent sardines and 60-70 percent mackerel.

The entire sardine catch was taken with purse seines and lampara nets. The San Pedro district accounted for 77 percent of the landings and the Santa Barbara, 20 percent. The remaining 3 percent was taken in the Monterey and San Diego districts.

In June 1961, the State of California enacted legislation extending the 1961 and 1962 sardine fishing seasons 2 months to permit taking sardines during January and February of 1962 and 1963.



SARDINE, PACIFIC

REVIEW OF CERTAIN MAJOR FISHERIES

PACIFIC MACKEREL FISHERIES

The 1961 catch of jack mackerel (97.8 million pounds) was up 22.7 million pounds compared with 1960. Landings of Pacific mackerel (44 million pounds) were 7 million pounds greater than in the previous year. The combined mackerel catch amounted to 142 million pounds valued at \$3 million--an increase of 30 million pounds and \$644,000 over 1960. As in previous years, most of the catch of jack mackerel (81 percent) and Pacific mackerel (94 percent) was landed in the San Pedro district.

Nearly all of the jack mackerel and 93.4 percent of the Pacific mackerel were taken by purse seines and lampara nets. Brail or scoop nets accounted for 6.5 percent of the Pacific mackerel catch.

SUMMARY OF JACK MACKEREL CATCH, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| STATE AND DISTRICT | PURSE SEINES AND LAMPARA NETS 1/ | | OTTER TRAWLS | | LINES | |
|-------------------------|----------------------------------|-------|--------------|-------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| CALIFORNIA: | | | | | | |
| SAN FRANCISCO | 20 | 1 | 1 | (1) | - | - |
| MONTEREY | 3,636 | 85 | 15 | (1) | - | - |
| SANTA BARBARA | 14,792 | 281 | - | - | - | - |
| SAN PEDRO | 79,139 | 1,658 | - | - | - | - |
| TOTAL | 97,567 | 2,025 | 16 | (1) | - | - |
| HAWAII | (3) | (3) | - | - | 120 | 54 |
| GRAND TOTAL | 97,567 | 2,025 | 16 | (1) | 120 | 54 |
| STATE AND DISTRICT | DIP, BRAIL, OR SCOOP NETS 2/ | | TOTAL | | | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| CALIFORNIA: | | | | | | |
| SAN FRANCISCO | - | - | 21 | 1 | | |
| MONTEREY | - | - | 3,651 | 85 | | |
| SANTA BARBARA | 3 | (1) | 14,795 | 281 | | |
| SAN PEDRO | - | - | 79,139 | 1,658 | | |
| TOTAL | 3 | (1) | 97,606 | 2,025 | | |
| HAWAII | 84 | 30 | 204 | 84 | | |
| GRAND TOTAL | 87 | 30 | 97,810 | 2,109 | | |

1/ INCLUDES THE CATCH BY HAUL SEINES IN HAWAII.

2/ INCLUDES THE CATCH BY LIFT NETS IN HAWAII.

3/ LESS THAN 500 POUNDS OR \$500.

SUMMARY OF PACIFIC MACKEREL CATCH, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| STATE AND DISTRICT | PURSE SEINES AND LAMPARA NETS | | OTTER TRAWLS | | LINES | |
|-------------------------|-------------------------------|-------|--------------|-------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| CALIFORNIA: | | | | | | |
| MONTEREY | 10 | (1) | (1) | (1) | - | - |
| SANTA BARBARA | 2,354 | 47 | - | - | - | - |
| SAN PEDRO | 38,763 | 843 | - | - | 35 | 1 |
| SAN DIEGO | 72 | 3 | - | - | - | - |
| TOTAL | 41,219 | 893 | (1) | (1) | 35 | 1 |
| STATE AND DISTRICT | DIP, BRAIL, OR SCOOP NETS | | TOTAL | | | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| CALIFORNIA: | | | | | | |
| MONTEREY | - | - | 10 | (1) | | |
| SANTA BARBARA | 124 | 3 | 2,478 | 50 | | |
| SAN PEDRO | 2,727 | 59 | 41,545 | 903 | | |
| SAN DIEGO | 5 | (1) | 77 | 3 | | |
| TOTAL | 2,856 | 62 | 44,110 | 956 | | |

1/ LESS THAN 500 POUNDS OR \$500.

PACIFIC TUNA FISHERY

The 1961 domestic catch of tuna landed at Pacific Coast and Hawaii ports totaled 323.4 million pounds valued at \$42.2 million. Compared with the previous year, this was an increase of 26.6 million pounds and \$4.7 million. Landings at ports in continental United States increased from 287.8 million pounds in 1960 to 311 million pounds in 1961, largely as a result of gains in skipjack landings. In Hawaii, the catch of 12.4 million pounds was 38 percent over the 1960 landings, also due to greater skipjack receipts.

Conversion of clippers to purse seine vessels continued at a steady pace, and there was a trend toward use of larger seiners. The catch by purse seiners totaled a record 234.3 million pounds--60.2 million pounds more than in 1960. As a result of the conversion of clippers to seiners, the catch by lines amounted to only 89,1 million pounds--33.5 million pounds less than in 1960 and 246.5 million pounds under the record 335.6 million pounds taken by lines in 1950.

Yellowfin catches began to decline rapidly after May 1961, following a pattern predicted by scientists of the Inter-American Tropical Tuna Commission. California yellowfin landings during the first 5 months of 1961 were 27.5 million pounds more than in the same period in 1960. However, in the last 7 months of the year, they were 24.7 million pounds less. At a special meeting in Long Beach in September 1961, the Commission recommended the establishment of a yellowfin catch quota for the eastern Pacific.

A total of 4,535 fishermen, 1,027 vessels, and 493 motor boats engaged in the tuna fishery in 1961.

SUMMARY OF PACIFIC COAST TUNA OPERATING UNITS, 1961

| ITEM | PURSE SEINES | LINES, HAND | | | TOTAL, EXCLUSIVE OF DUPLICATION |
|------------------------------|--------------|---------------------|---------------|-------------------|---------------------------------|
| | | ALBACORE BAIT BOATS | TUNA CLIPPERS | ALBACORE TROLLERS | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| FISHERMEN: | | | | | |
| ON VESSELS | 1,513 | 651 | 511 | 2,034 | 4,075 |
| ON BOATS AND SHORE | - | 71 | - | 389 | 460 |
| TOTAL | 1,513 | 722 | 511 | 2,423 | 4,535 |
| VESSELS, MOTOR: | | | | | |
| 5 - 9 TONS | - | 5 | - | 46 | 47 |
| 10 - 19 TONS | - | 101 | - | 359 | 371 |
| 20 - 29 TONS | 1 | 67 | - | 245 | 253 |
| 30 - 39 TONS | - | 13 | 2 | 109 | 113 |
| 40 - 49 TONS | - | 6 | 3 | 39 | 43 |
| 50 - 59 TONS | 1 | 6 | 2 | 17 | 21 |
| 60 - 69 TONS | 2 | 2 | - | 8 | 10 |
| 70 - 79 TONS | 2 | 1 | 1 | 7 | 10 |
| 80 - 89 TONS | 3 | 2 | 2 | 1 | 7 |
| 90 - 99 TONS | 3 | 2 | 1 | 3 | 7 |
| 100 - 109 TONS | 3 | 1 | 1 | - | 4 |
| 110 - 119 TONS | 6 | - | - | - | 6 |
| 120 - 129 TONS | 4 | - | - | 1 | 5 |
| 130 - 139 TONS | 6 | - | 1 | - | 7 |
| 140 - 149 TONS | 1 | - | - | - | 1 |
| 150 - 159 TONS | 5 | - | - | - | 5 |
| 160 - 169 TONS | 2 | 1 | 3 | - | 5 |
| 170 - 179 TONS | 1 | - | - | - | 1 |
| 180 - 189 TONS | 3 | - | 1 | - | 4 |
| 190 - 199 TONS | 5 | - | 7 | - | 12 |

(CONTINUED ON NEXT PAGE)

REVIEW OF CERTAIN MAJOR FISHERIES

SUMMARY OF PACIFIC COAST TUNA

OPERATING UNITS, 1961 - Continued

| ITEM | PURSE SEINES | LINES, HAND | | | TOTAL, EXCLUSIVE OF DUPLICATION |
|-------------------------------|---------------|---------------------|---------------|-------------------|---------------------------------|
| | | ALBACORE BAIT BOATS | TUNA CLIPPERS | ALBACORE TROLLERS | |
| | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> | <u>NUMBER</u> |
| VESSELS, MOTOR - CONTINUED: | | | | | |
| 200 - 209 TONS. | - 2 | - | 1 | - | 1 |
| 210 - 219 TONS. | 1 | - | 1 | - | 2 |
| 220 - 229 TONS. | 4 | - | 2 | - | 5 |
| 230 - 239 TONS. | - | - | 1 | - | 1 |
| 240 - 249 TONS. | 3 | - | 1 | - | 4 |
| 250 - 259 TONS. | 3 | - | - | - | 3 |
| 260 - 269 TONS. | 4 | - | - | - | 4 |
| 270 - 279 TONS. | 2 | - | - | - | 2 |
| 290 - 299 TONS. | | | | | |
| 300 - 309 TONS. | 2 | - | - | - | 2 |
| 310 - 319 TONS. | 4 | - | - | - | 4 |
| 320 - 329 TONS. | 2 | - | - | - | 2 |
| 330 - 339 TONS. | 2 | - | - | - | 2 |
| 340 - 349 TONS. | 2 | - | - | - | 2 |
| 350 - 359 TONS. | 7 | - | - | - | 7 |
| 360 - 369 TONS. | 5 | - | 2 | - | 7 |
| 370 - 379 TONS. | 2 | - | 10 | - | 12 |
| 380 - 389 TONS. | 3 | - | 1 | - | 4 |
| 390 - 399 TONS. | 1 | - | - | - | 1 |
| 400 - 409 TONS. | 1 | - | - | - | 1 |
| 410 - 419 TONS. | 2 | - | - | - | 2 |
| 420 - 429 TONS. | 3 | - | - | - | 3 |
| 430 - 439 TONS. | 6 | - | 1 | - | 6 |
| 440 - 449 TONS. | 5 | - | - | - | 5 |
| 450 - 459 TONS. | 1 | - | - | - | 1 |
| 460 - 469 TONS. | 2 | - | - | - | 2 |
| 470 - 479 TONS. | 3 | - | - | - | 3 |
| 480 - 489 TONS. | 2 | - | - | - | 2 |
| 490 - 499 TONS. | 1 | - | - | - | 1 |
| 570 - 579 TONS. | 1 | - | - | - | 1 |
| 700 - 709 TONS. | 1 | - | - | - | 1 |
| TOTAL VESSELS | 128 | 239 | 44 | 835 | 1,027 |
| TOTAL GROSS TONNAGE | 34,425 | 6,121 | 9,606 | 19,236 | 63,171 |
| BOATS, MOTOR. | 165 | 50 | 49 | 237 | 493 |
| GEAR: | | | | | |
| NUMBER. | 126 | 733 | 439 | 9,437 | - |
| LENGTH, YARDS. | 90,250 | - | - | - | - |
| HOOKS. | - | 733 | 439 | 9,437 | - |



SKIPJACK TUNA

REVIEW OF CERTAIN MAJOR FISHERIES

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SUMMARY OF PACIFIC TUNA CATCH, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES, STATE, AND DISTRICT | PURSE SEINES | | LINES | | TOTAL | |
|----------------------------------|--------------|--------|----------|--------|----------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| ALBACORE: | | | | | | |
| WASHINGTON: | | | | | | |
| PUGET SOUND | - | - | 133 | 25 | 133 | 25 |
| COASTAL | - | - | 296 | 55 | 296 | 55 |
| COLUMBIA RIVER | - | - | 27 | 5 | 27 | 5 |
| TOTAL | - | - | 456 | 85 | 456 | 85 |
| OREGON: | | | | | | |
| COLUMBIA RIVER | - | - | 1,471 | 279 | 1,471 | 279 |
| COASTAL | - | - | 1,780 | 312 | 1,780 | 312 |
| TOTAL | - | - | 3,251 | 591 | 3,251 | 591 |
| CALIFORNIA: | | | | | | |
| NORTHERN | - | - | 1,440 | 234 | 1,440 | 234 |
| SAN FRANCISCO | - | - | 3,432 | 615 | 3,432 | 615 |
| MONTEREY | - | - | 1,872 | 302 | 1,872 | 302 |
| SANTA BARBARA | - | - | 684 | 109 | 684 | 109 |
| SAN PEDRO | 2,000 | 363 | 9,993 | 1,809 | 11,993 | 2,172 |
| SAN DIEGO | - | - | 9,702 | 1,755 | 9,702 | 1,755 |
| TOTAL | 2,000 | 363 | 27,123 | 4,824 | 29,123 | 5,187 |
| HAWAII | - | - | 14 | 4 | 14 | 4 |
| GRAND TOTAL, ALBACORE | 2,000 | 363 | 30,844 | 5,504 | 32,844 | 5,867 |
| BLUEFIN: | | | | | | |
| CALIFORNIA: | | | | | | |
| SAN PEDRO | 20,420 | 2,646 | - | - | 20,420 | 2,646 |
| SAN DIEGO | 463 | 59 | - | - | 463 | 59 |
| TOTAL | 20,883 | 2,705 | - | - | 20,883 | 2,705 |
| HAWAII 1/ | - | - | 1,037 | 508 | 1,037 | 508 |
| GRAND TOTAL, BLUEFIN | 20,883 | 2,705 | 1,037 | 508 | 21,920 | 3,213 |
| LITTLE, HAWAII | - | - | 2 | (2) | 2 | (2) |
| SKIPJACK: | | | | | | |
| CALIFORNIA: | | | | | | |
| SAN PEDRO | 34,907 | 3,854 | 14,258 | 1,577 | 49,165 | 5,431 |
| SAN DIEGO | 23,925 | 1,270 | 4,709 | 518 | 16,238 | 1,786 |
| TOTAL | 46,436 | 5,124 | 18,967 | 2,095 | 65,403 | 7,219 |
| HAWAII | - | - | 10,951 | 1,307 | 10,951 | 1,307 |
| GRAND TOTAL, SKIPJACK | 46,436 | 5,124 | 29,918 | 3,402 | 76,354 | 8,526 |
| YELLOWFIN: | | | | | | |
| CALIFORNIA: | | | | | | |
| SAN PEDRO | 141,070 | 17,902 | 22,965 | 2,922 | 164,035 | 20,824 |
| SAN DIEGO | 23,925 | 3,109 | 3,894 | 506 | 27,819 | 3,615 |
| TOTAL | 164,995 | 21,011 | 26,859 | 3,428 | 191,854 | 24,439 |
| HAWAII | - | - | 459 | 168 | 459 | 168 |
| GRAND TOTAL, YELLOWFIN | 164,995 | 21,011 | 27,318 | 3,596 | 192,313 | 24,607 |
| GRAND TOTAL, ALL SPECIES | 234,314 | 29,203 | 89,119 | 13,010 | 323,433 | 42,213 |

1/ INCLUDES THE CATCH OF BIGEYE TUNA.

2/ LESS THAN \$500.



REVIEW OF CERTAIN MAJOR FISHERIES

UNITED STATES MENHADEN FISHERY

The 1961 menhaden catch amounted to 2.3 million pounds--45 percent of the total United States production of all species. The catch was 296 million pounds greater than in 1960 and 112 million pounds above the previous high reached in 1959.

The Gulf catch, which totaled over 1 billion pounds for the first time, was 180 million pounds above the previous year's production. Along the Atlantic Coast, the take was 117 million pounds greater than in 1960.

Purse seines accounted for 98 percent of the 1961 catch. The remainder was taken by pound nets, haul seines, gill nets, fyke and hoop nets, floating traps, trammel nets, and otter trawls.

Of the total, 44 percent was landed in the Gulf of Mexico, 31 percent in the Middle Atlantic, 13 percent in the Chesapeake, 11 percent in the South Atlantic, and 1 percent in the New England area.

There is included in this Section a detailed summary of operating units engaged in the Atlantic and Gulf Coast menhaden purse seine fishery. During 1961, a total of 3,495 fishermen, 180 vessels, 466 motor boats, and 43 other boats was engaged in the menhaden fishery.

SUMMARY OF MENHADEN PURSE SEINE VESSELS, BY TONNAGE GROUPS, 1961

| GROSS TONNAGE | NEW ENGLAND | | | MIDDLE ATLANTIC | | | | CHESAPEAKE | | |
|-----------------------------|---------------|--------------|---------------------------------|-----------------|------------|----------|---------------------------------|------------|----------|---------------------------------|
| | MASSACHUSETTS | RHODE ISLAND | TOTAL, EXCLUSIVE OF DUPLICATION | NEW YORK | NEW JERSEY | DELAWARE | TOTAL, EXCLUSIVE OF DUPLICATION | MARYLAND | VIRGINIA | TOTAL, EXCLUSIVE OF DUPLICATION |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| 30 - 39 | - | - | - | - | 1 | - | 1 | 1 | 1 | 1 |
| 40 - 49 | 1 | 3 | 3 | - | - | - | - | - | - | - |
| 50 - 59 | - | 1 | 1 | - | - | - | - | - | - | - |
| 60 - 69 | 1 | 1 | 1 | - | - | - | - | - | - | - |
| 70 - 79 | 1 | - | 1 | - | - | - | - | - | - | - |
| 100 - 109 | 1 | 1 | 1 | - | - | - | - | - | - | - |
| 110 - 119 | - | - | - | - | 1 | - | 1 | - | - | - |
| 120 - 129 | - | - | - | - | - | - | - | - | - | - |
| 140 - 149 | - | - | - | - | - | 2 | 2 | - | 5 | 5 |
| 150 - 159 | - | - | - | - | 1 | - | 1 | - | 2 | 2 |
| 160 - 169 | - | - | - | - | - | 1 | 1 | - | 1 | 1 |
| 170 - 179 | - | - | - | - | 4 | - | 5 | - | - | - |
| 180 - 189 | - | - | - | 1 | 2 | 1 | 4 | - | 2 | 2 |
| 190 - 199 | - | - | - | - | 15 | 15 | 30 | - | 3 | 3 |
| 220 - 229 | - | - | - | 4 | - | - | 4 | - | 1 | 1 |
| 230 - 239 | - | - | - | 1 | - | - | 1 | - | 1 | 1 |
| 240 - 249 | - | - | - | - | - | 1 | - | - | 1 | 1 |
| 260 - 269 | - | - | - | - | - | - | - | - | 3 | 3 |
| 280 - 289 | - | - | - | - | 3 | - | 3 | - | 1 | 1 |
| 290 - 299 | - | - | - | 1 | - | - | 1 | - | 1 | 1 |
| 300 - 309 | - | - | - | 2 | - | - | 2 | - | - | - |
| 310 - 319 | - | - | - | 1 | - | - | 1 | - | - | - |
| 320 - 329 | - | - | - | - | - | - | - | - | 1 | 1 |
| 370 - 379 | - | - | - | - | - | - | - | - | 1 | 1 |
| 390 - 399 | - | - | - | - | - | - | - | - | 1 | 1 |
| TOTAL VESSELS | 5 | 6 | 7 | 10 | 27 | 21 | 58 | 1 | 26 | 26 |
| TOTAL GROSS TONNAGE | 343 | 355 | 430 | 2,546 | 5,185 | 4,038 | 11,769 | 31 | 5,497 | 5,497 |

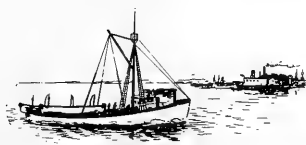
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REVIEW OF CERTAIN MAJOR FISHERIES

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SUMMARY OF MENHADEN PURSE SEINE VESSELS, BY TONNAGE GROUPS, 1961 - Continued

| GROSS TONNAGE | SOUTH ATLANTIC | | | GULF | | | | | GRAND TOTAL, EXCLUSIVE OF DUPLI- CATION |
|--------------------------------|------------------------|---------------------------|--|---------------------------|-----------------------|-----------------|--------|--|---|
| | NORTH CARO- LINA | FLORIDA, EAST COAST | TOTAL, EXCLUSIVE OF DUPLI- CATION | FLORIDA, WEST COAST | MIS- SIS- SIPPI | LOUISI- IANA | TEXAS | TOTAL, EXCLUSIVE OF DUPLI- CATION | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| 30 - 39 | - | - | - | - | - | - | - | - | 2 |
| 40 - 49 | 1 | - | 1 | - | - | - | - | - | 4 |
| 50 - 59 | 2 | - | 2 | - | - | - | - | - | 3 |
| 60 - 69 | 3 | - | 3 | - | - | - | - | - | 4 |
| 70 - 79 | 1 | - | 1 | - | - | - | - | - | 2 |
| 90 - 99 | - | - | - | - | - | 1 | - | 1 | 1 |
| 100 - 109 | - | - | - | 1 | - | 2 | - | 2 | 3 |
| 110 - 119 | 1 | - | 1 | - | - | 1 | - | 1 | 2 |
| 120 - 129 | - | 1 | 1 | - | - | 1 | - | 1 | 3 |
| 130 - 139 | - | - | - | - | - | 1 | 3 | 4 | 4 |
| 140 - 149 | 2 | - | 3 | - | - | 3 | 2 | 5 | 13 |
| 150 - 159 | 1 | 1 | 2 | 1 | - | - | - | 1 | 6 |
| 160 - 169 | - | - | - | 1 | - | - | 4 | 5 | 7 |
| 170 - 179 | 3 | - | 3 | - | 1 | 5 | - | 6 | 11 |
| 180 - 189 | 3 | - | 3 | - | 2 | 1 | 4 | 7 | 13 |
| 190 - 199 | 12 | - | 12 | - | 5 | 7 | 1 | 11 | 44 |
| 210 - 219 | - | - | - | - | - | 1 | - | 1 | 1 |
| 220 - 229 | 3 | - | 3 | - | 1 | 2 | - | 3 | 8 |
| 230 - 239 | 2 | - | 2 | - | 1 | 3 | - | 4 | 6 |
| 240 - 249 | 4 | - | 4 | - | - | 1 | - | 1 | 6 |
| 250 - 259 | 7 | - | 7 | - | - | 3 | - | 3 | 7 |
| 260 - 269 | 4 | - | 4 | - | 1 | 1 | - | 2 | 8 |
| 280 - 289 | 2 | - | 2 | - | - | - | - | - | 3 |
| 290 - 299 | 1 | - | 1 | - | 1 | - | - | 1 | 3 |
| 300 - 309 | 1 | - | 1 | - | - | - | - | - | 2 |
| 310 - 319 | - | - | - | - | - | 1 | - | 1 | 2 |
| 320 - 329 | - | - | - | - | - | - | - | - | 1 |
| 370 - 379 | - | - | - | - | - | - | - | - | 1 |
| 390 - 399 | 1 | - | 1 | - | - | - | - | - | 1 |
| 410 - 419 | - | - | - | - | - | 1 | - | 1 | 1 |
| 460 - 469 | - | - | - | - | - | 1 | - | 1 | 1 |
| 470 - 479 | - | - | - | - | 3 | 2 | - | 5 | 5 |
| 610 - 619 | - | - | - | - | 1 | - | - | 1 | 1 |
| 640 - 649 | - | - | - | - | 1 | 1 | - | 1 | 1 |
| TOTAL VESSELS | 52 | 3 | 55 | 2 | 18 | 39 | 14 | 69 | 180 |
| TOTAL GROSS TONNAGE | 10,588 | 422 | 11,010 | 262 | 5,376 | 8,953 | 2,257 | 15,700 | 36,654 |



MENHADEN VESSEL

REVIEW OF CERTAIN MAJOR FISHERIES

SUMMARY OF MENHADEN PURSE SEINE OPERATING UNITS, 1961

| AREA AND STATE | VESSELS | | BOATS | | FISHERMEN | PURSE SEINES | |
|---|---------|---------------|--------------|--------------|-----------|--------------|-----------------|
| | NUMBER | GROSS TONNAGE | MOTOR NUMBER | OTHER NUMBER | | NUMBER | LENGTH IN YARDS |
| NEW ENGLAND: | | | | | | | |
| MASSACHUSETTS | 5 | 343 | 5 | 5 | 40 | 5 | 1,875 |
| RHODE ISLAND | 6 | 355 | 6 | 3 | 46 | 6 | 1,950 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 7 | 430 | 7 | 7 | 55 | 7 | 2,550 |
| MIDDLE ATLANTIC: | | | | | | | |
| NEW YORK | 10 | 2,546 | 30 | - | 170 | 10 | 4,360 |
| NEW JERSEY | 27 | 5,185 | 80 | - | 449 | 27 | 10,390 |
| DELAWARE | 21 | 4,038 | 63 | - | 357 | 21 | 7,320 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 58 | 11,769 | 173 | - | 976 | 58 | 22,070 |
| CHESAPEAKE: | | | | | | | |
| MARYLAND | 1 | 31 | 1 | - | 9 | 1 | 375 |
| VIRGINIA | 26 | 5,497 | 76 | - | 409 | 26 | 9,750 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 26 | 5,497 | 76 | - | 409 | 26 | 9,750 |
| SOUTH ATLANTIC: | | | | | | | |
| NORTH CAROLINA | 52 | 10,588 | 156 | 3 | 1,166 | 52 | 20,800 |
| FLORIDA, EAST COAST | 3 | 422 | 6 | 3 | 60 | 3 | 1,200 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 55 | 11,010 | 162 | 3 | 1,226 | 55 | 22,000 |
| GULF: | | | | | | | |
| FLORIDA, WEST COAST | 2 | 262 | 4 | 2 | 48 | 2 | 800 |
| MISSISSIPPI | 18 | 5,376 | 35 | 17 | 381 | 18 | 7,540 |
| LOUISIANA | 39 | 8,953 | 78 | - | 812 | 39 | 17,472 |
| TEXAS | 14 | 2,297 | 28 | 14 | 293 | 14 | 6,650 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 69 | 15,700 | 134 | 33 | 1,404 | 69 | 30,792 |
| GRAND TOTAL, EXCLUSIVE OF DUPLICATION | 180 | 36,654 | 466 | 43 | 3,495 | 180 | 73,617 |

SUMMARY OF MENHADEN CATCH, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| AREA AND STATE | HAUL SEINES | | PURSE SEINES | | OTTER TRAWLS | |
|-------------------------------|-------------|-------|--------------|--------|--------------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| NEW ENGLAND: | | | | | | |
| MASSACHUSETTS | - | - | 3,330 | 30 | - | - |
| RHODE ISLAND | - | - | 22,616 | 193 | (1) | (1) |
| CONNECTICUT | - | - | - | - | 1 | (1) |
| TOTAL | - | - | 25,946 | 223 | 1 | (1) |
| MIDDLE ATLANTIC: | | | | | | |
| NEW YORK | 5 | (1) | 83,080 | 940 | - | - |
| NEW JERSEY | - | - | 310,843 | 3,427 | - | - |
| DELAWARE | - | - | 302,773 | 3,356 | - | - |
| TOTAL | 5 | (1) | 696,696 | 7,723 | - | - |
| CHESAPEAKE: | | | | | | |
| MARYLAND | 42 | 1 | 2,321 | 39 | - | - |
| VIRGINIA | 14,250 | 213 | 259,943 | 2,548 | (1) | (1) |
| TOTAL | 14,292 | 214 | 262,264 | 2,587 | (1) | (1) |
| SOUTH ATLANTIC: | | | | | | |
| NORTH CAROLINA | 30 | (1) | 221,524 | 2,415 | - | - |
| FLORIDA, EAST COAST | 7 | (1) | 32,548 | 263 | - | - |
| TOTAL | 37 | (1) | 254,072 | 2,678 | - | - |
| GULF: | | | | | | |
| FLORIDA, WEST COAST | 13 | (1) | 3,350 | 32 | - | - |
| MISSISSIPPI | - | - | 301,271 | 3,404 | - | - |
| LOUISIANA | - | - | 581,682 | 6,748 | - | - |
| TEXAS | - | - | 134,105 | 1,408 | - | - |
| TOTAL | 13 | (1) | 1,020,408 | 11,592 | - | - |
| GRAND TOTAL | 14,347 | 214 | 2,259,386 | 24,803 | 1 | (1) |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

REVIEW OF CERTAIN MAJOR FISHERIES

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SUMMARY OF MENHADEN CATCH, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| AREA AND STATE | POUND NETS | | FLOATING TRAPS | | FYKE AND HOOP NETS | |
|---|------------|-------|----------------|-------|--------------------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| NEW ENGLAND: | | | | | | |
| MASSACHUSETTS | 33 | (1) | - | - | - | - |
| RHODE ISLAND | - | - | 20 | (1) | - | - |
| TOTAL | 33 | (1) | 20 | (1) | - | - |
| MIDDLE ATLANTIC: | | | | | | |
| NEW YORK | 983 | 9 | - | - | - | - |
| NEW JERSEY | 16,971 | 187 | - | - | - | - |
| TOTAL | 17,954 | 196 | - | - | - | - |
| CHESAPEAKE: | | | | | | |
| MARYLAND | 1,186 | 19 | - | - | 1 | (1) |
| VIRGINIA | 20,595 | 321 | - | - | 300 | 5 |
| TOTAL | 21,781 | 340 | - | - | 301 | 5 |
| SOUTH ATLANTIC, NORTH CAROLINA | 1 | (1) | - | - | - | - |
| GRAND TOTAL | 39,769 | 536 | 20 | (1) | 301 | 5 |

| AREA AND STATE | GILL NETS | | TRAMMEL NETS | | TOTAL | |
|-------------------------------|-----------|-------|--------------|-------|-----------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| NEW ENGLAND: | | | | | | |
| MASSACHUSETTS | - | - | - | - | 3,363 | 30 |
| RHODE ISLAND | - | - | - | - | 22,636 | 193 |
| CONNECTICUT | 11 | (1) | - | - | 12 | (1) |
| TOTAL | 11 | (1) | - | - | 26,011 | 223 |
| MIDDLE ATLANTIC: | | | | | | |
| NEW YORK | - | - | - | - | 84,068 | 949 |
| NEW JERSEY | 394 | 11 | - | - | 328,208 | 3,625 |
| DELAWARE | - | - | - | - | 302,773 | 3,356 |
| TOTAL | 394 | 11 | - | - | 715,049 | 7,930 |
| CHESAPEAKE: | | | | | | |
| MARYLAND | 28 | (1) | - | - | 3,578 | 59 |
| VIRGINIA | 13 | (1) | - | - | 295,101 | 3,087 |
| TOTAL | 41 | (1) | - | - | 298,679 | 3,146 |
| SOUTH ATLANTIC: | | | | | | |
| NORTH CAROLINA | - | - | - | - | 221,555 | 2,415 |
| FLORIDA, EAST COAST | 390 | 10 | 5 | (1) | 32,950 | 273 |
| TOTAL | 390 | 10 | 5 | (1) | 254,505 | 2,688 |
| GULF: | | | | | | |
| FLORIDA, WEST COAST | 9 | (1) | 3 | (1) | 3,375 | 32 |
| MISSISSIPPI | - | - | - | - | 301,271 | 3,404 |
| LOUISIANA | - | - | - | - | 581,662 | 6,748 |
| TEXAS | - | - | - | - | 134,105 | 1,408 |
| TOTAL | 9 | (1) | 3 | (1) | 1,020,433 | 11,592 |
| GRAND TOTAL | 845 | 21 | 8 | (1) | 2,314,677 | 25,579 |

1/ LESS THAN 500 POUNDS OR \$500.

REVIEW OF CERTAIN MAJOR FISHERIES

UNITED STATES CLAM FISHERY

The 1961 yield of the United States clam fishery amounted to 50 million pounds of meats valued at \$11.7 million to the fishermen. This was a gain of 2 percent in volume, but a decrease of 3 percent in value compared with the previous year. The Middle Atlantic led all other areas in the production of clam meats with 68 percent of the total. The New England and Chesapeake States accounted for 15 and 14 percent, respectively. The remaining 3 percent was produced in the South Atlantic, Gulf, and Pacific Coast areas.

Clam dredges took 36 million pounds (72 percent) of clam meats; tongs, 5.7 million pounds (11 percent); and rakes, 3.9 million pounds (8 percent). The remainder of the catch was taken with hoes, forks, shovels, or gathered by hand.

In Section 13 of this Digest, under the heading "Conversion Factors," there is a table which gives the average State yield per United States standard bushel for the clams taken on the Atlantic and Gulf Coasts. Supplementary shellfish tables appear after the summary tables for each Atlantic and Gulf regional section.

SUMMARY OF CLAM CATCH, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| AREA AND STATE | COCKLE | | HARD | | OCEAN QUAHOG | | RAZOR | |
|-------------------------------|----------|-------|----------|-------|--------------|-------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| NEW ENGLAND: | | | | | | | | |
| MAINE | - | - | 13 | 7 | - | - | - | - |
| MASSACHUSETTS | - | - | 1,664 | 952 | - | - | 25 | 8 |
| RHODE ISLAND | - | - | 2,608 | 992 | 124 | 12 | - | - |
| CONNECTICUT | - | - | 420 | 176 | - | - | - | - |
| TOTAL | - | - | 4,705 | 2,127 | 124 | 12 | 25 | 8 |
| MIDDLE ATLANTIC: | | | | | | | | |
| NEW YORK | - | - | 4,291 | 2,493 | - | - | 14 | 3 |
| NEW JERSEY | - | - | 1,687 | 732 | - | - | - | - |
| DELAWARE | - | - | 562 | 232 | - | - | - | - |
| TOTAL | - | - | 6,560 | 3,457 | - | - | 14 | 3 |
| CHESAPEAKE: | | | | | | | | |
| MARYLAND | - | - | 457 | 217 | - | - | - | - |
| VIRGINIA | - | - | 1,861 | 865 | - | - | - | - |
| TOTAL | - | - | 2,318 | 1,082 | - | - | - | - |
| SOUTH ATLANTIC: | | | | | | | | |
| NORTH CAROLINA | - | - | 490 | 196 | - | - | - | - |
| SOUTH CAROLINA | - | - | 109 | 38 | - | - | - | - |
| FLORIDA, EAST COAST | - | - | 4 | 2 | - | - | - | - |
| TOTAL | - | - | 603 | 236 | - | - | - | - |
| GULF, FLORIDA, WEST COAST. | - | - | 15 | 5 | - | - | - | - |
| PACIFIC: | | | | | | | | |
| ALASKA | 2 | 1 | - | - | - | - | 389 | 120 |
| WASHINGTON | - | - | 401 | 167 | - | - | 281 | 133 |
| OREGON | - | - | - | 3 | - | - | 16 | 8 |
| CALIFORNIA | - | - | 2 | - | - | - | - | - |
| TOTAL | 2 | 1 | 403 | 170 | - | - | 686 | 261 |
| HAWAII | - | - | (1) | (1) | - | - | - | - |
| GRAND TOTAL | 2 | 1 | 14,604 | 7,077 | 124 | 12 | 725 | 272 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

REVIEW OF CERTAIN MAJOR FISHERIES

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SUMMARY OF CLAM CATCH, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| AREA AND STATE | SOFT | | SURF | | MIXED | | TOTAL | |
|-------------------------------|----------|-------|----------|-------|----------|-------|----------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| NEW ENGLAND: | | | | | | | | |
| MAINE | 1,844 | 794 | - | - | - | - | 1,857 | 801 |
| MASSACHUSETTS | 653 | 451 | 12 | 2 | - | - | 2,354 | 1,413 |
| RHODE ISLAND | 7 | 4 | - | - | - | - | 2,739 | 1,008 |
| CONNECTICUT | (1) | (1) | - | - | - | - | 420 | 176 |
| TOTAL | 2,504 | 1,249 | 12 | 2 | - | - | 7,370 | 3,398 |
| MIDDLE ATLANTIC: | | | | | | | | |
| NEW YORK | 143 | 38 | 722 | 65 | - | - | 5,170 | 2,599 |
| NEW JERSEY | 21 | 9 | 26,697 | 1,693 | - | - | 26,405 | 2,434 |
| DELAWARE | - | - | - | - | - | - | 582 | 232 |
| TOTAL | 164 | 47 | 27,419 | 1,758 | - | - | 34,157 | 5,265 |
| CHESAPEAKE: | | | | | | | | |
| MARYLAND | 4,692 | 1,231 | 71 | 6 | - | - | 5,220 | 1,454 |
| VIRGINIA | 3 | 1 | - | - | - | - | 1,864 | 866 |
| TOTAL | 4,695 | 1,232 | 71 | 6 | - | - | 7,084 | 2,320 |
| SOUTH ATLANTIC: | | | | | | | | |
| NORTH CAROLINA | - | - | - | - | - | - | 490 | 195 |
| SOUTH CAROLINA | - | - | - | - | - | - | 109 | 36 |
| FLORIDA, EAST COAST | - | - | - | - | - | - | 4 | 2 |
| TOTAL | - | - | - | - | - | - | 603 | 236 |
| GULF, FLORIDA, WEST COAST. | - | - | - | - | - | - | 15 | 5 |
| PACIFIC: | | | | | | | | |
| ALASKA | - | - | - | - | - | - | 391 | 121 |
| WASHINGTON | - | - | - | - | - | - | 682 | 300 |
| OREGON | - | - | - | - | 10 | 5 | 26 | 13 |
| CALIFORNIA | - | - | - | - | - | - | 2 | 3 |
| TOTAL | - | - | - | - | 10 | 5 | 1,101 | 437 |
| HAWAII | - | - | - | - | - | - | (1) | (1) |
| GRAND TOTAL | 7,363 | 2,528 | 27,502 | 1,766 | 10 | 5 | 50,330 | 11,661 |

1/ LESS THAN 500 POUNDS OR \$500.

SUMMARY OF CLAM CATCH BY GEAR, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| GEAR | COCKLE | | HARD | | OCEAN QUAHOG | | RAZOR | |
|-------------------|----------|-------|----------|-------|--------------|-------|----------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| DREDGES | - | - | 3,960 | 1,689 | 124 | 12 | - | - |
| TONGS | - | - | 5,741 | 2,695 | - | - | - | - |
| RAKES | - | - | 3,715 | 1,976 | - | - | 14 | 3 |
| HOES | - | - | 101 | 54 | - | - | 25 | 8 |
| SHOVELS | 2 | 1 | 340 | 147 | - | - | 686 | 261 |
| BY HAND | - | - | 727 | 316 | - | - | - | - |
| TOTAL | 2 | 1 | 14,604 | 7,077 | 124 | 12 | 725 | 272 |
| GEAR | SOFT | | SURF | | MIXED | | TOTAL | |
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| DREDGES | 4,695 | 1,232 | 27,496 | 1,765 | - | - | 36,295 | 4,898 |
| TONGS | - | - | 6 | 1 | - | - | 5,747 | 2,696 |
| RAKES | 200 | 87 | - | - | - | - | 3,929 | 2,066 |
| HOES | 2,441 | 1,194 | - | - | - | - | 2,567 | 1,256 |
| FORKS | 12 | 6 | - | - | - | - | 12 | 8 |
| SHOVELS | - | - | - | - | 10 | 5 | 1,036 | 414 |
| BY HAND | 15 | 7 | - | - | - | - | 742 | 323 |
| TOTAL | 7,363 | 2,528 | 27,502 | 1,766 | 10 | 5 | 50,330 | 11,661 |

REVIEW OF CERTAIN MAJOR FISHERIES

UNITED STATES CRAB FISHERY

The 1961 catch of crabs in the United States amounted to 231.6 million pounds, valued at \$17.3 million. Compared with the 1960 catch, this was an increase of 10 million pounds and \$269,000.

The Pacific States led all other areas with 76.3 million pounds (33 percent) of the catch and \$8.9 million (51 percent) of the total value for these crustaceans.

The king crab fishery again experienced a phenomenal growth as landings increased to 43.4 million pounds from 28.6 million pounds the previous year.

The catch of blue crabs (152.8 million pounds) was 1.9 million pounds less than in 1960, while landings of Dungeness crabs (32.7 million pounds) were down 3.5 million pounds.

In Section 13, under the heading "Conversion Factors," is a table which gives the average number of crabs per pound by species for each of the Atlantic and Gulf States. Supplementary shellfish tables are shown after the summary tables for each Atlantic and Gulf regional Section.

SUMMARY OF CRAB CATCH, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| AREA AND STATE | BLUE | | | | DUNGENESS | |
|--------------------------------|----------|-------|-----------------|-------|-----------|-------|
| | HARD | | SOFT AND PEELER | | QUANTITY | VALUE |
| | QUANTITY | VALUE | QUANTITY | VALUE | | |
| NEW ENGLAND, CONNECTICUT . . . | 4 | 1 | - | - | - | - |
| MIDDLE ATLANTIC: | | | | | | |
| NEW YORK | 1 | (1) | - | - | - | - |
| NEW JERSEY | 646 | 67 | 57 | 11 | - | - |
| DELAWARE | 759 | 52 | 54 | 15 | - | - |
| TOTAL | 1,406 | 119 | 111 | 26 | - | - |
| CHESAPEAKE: | | | | | | |
| MARYLAND | 26,658 | 1,466 | 2,692 | 614 | - | - |
| VIRGINIA | 43,976 | 1,945 | 1,568 | 422 | - | - |
| TOTAL | 70,634 | 3,411 | 4,260 | 1,036 | - | - |
| SOUTH ATLANTIC: | | | | | | |
| NORTH CAROLINA | 15,880 | 609 | 101 | 35 | - | - |
| SOUTH CAROLINA | 4,672 | 186 | - | - | - | - |
| GEORGIA | 12,312 | 450 | - | - | - | - |
| FLORIDA, EAST COAST | 7,486 | 344 | (1) | (1) | - | - |
| TOTAL | 40,350 | 1,589 | 101 | 35 | - | - |
| GULF: | | | | | | |
| FLORIDA, WEST COAST | 17,130 | 736 | 5 | 3 | - | - |
| ALABAMA | 638 | 46 | - | - | - | - |
| MISSISSIPPI | 2,505 | 143 | 7 | 1 | - | - |
| LOUISIANA | 11,910 | 514 | 620 | 310 | - | - |
| TEXAS | 2,675 | 178 | 2 | 1 | - | - |
| TOTAL | 35,258 | 1,617 | 634 | 315 | - | - |
| PACIFIC COAST: | | | | | | |
| ALASKA | - | - | - | - | 4,591 | 442 |
| WASHINGTON | - | - | - | - | 7,109 | 1,075 |
| OREGON | - | - | - | - | 9,288 | 1,479 |
| CALIFORNIA | - | - | - | - | 11,711 | 1,981 |
| TOTAL | - | - | - | - | 32,699 | 4,977 |
| GRAND TOTAL | 147,652 | 6,737 | 5,106 | 1,412 | 32,699 | 4,977 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

REVIEW OF CERTAIN MAJOR FISHERIES

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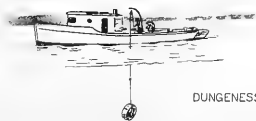
SUMMARY OF CRAB CATCH, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| AREA AND STATE | GREEN | | KING | | ROCK | | | |
|---------------------------------------|----------|-------|----------|-------|----------|-------|--|--|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | | |
| NEW ENGLAND: | | | | | | | | |
| MAINE | - | - | - | - | 1,579 | 58 | | |
| NEW HAMPSHIRE | 39 | 2 | - | - | 25 | 1 | | |
| MASSACHUSETTS | 58 | 6 | - | - | 83 | 7 | | |
| RHODE ISLAND | 29 | 3 | - | - | 213 | 22 | | |
| TOTAL | 126 | 11 | - | - | 1,900 | 88 | | |
| MIDDLE ATLANTIC, NEW JERSEY | - | - | - | - | 44 | 2 | | |
| PACIFIC COAST: | | | | | | | | |
| ALASKA | - | - | 43,412 | 3,914 | - | - | | |
| CALIFORNIA | - | - | - | - | 152 | 12 | | |
| TOTAL | - | - | 43,412 | 3,914 | 152 | 12 | | |
| GRAND TOTAL | 126 | 11 | 43,412 | 3,914 | 2,096 | 102 | | |

| AREA AND STATE | STONE | | TANNER | | OTHER | | TOTAL | |
|-------------------------------|----------|-------|----------|-------|----------|-------|----------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| NEW ENGLAND: | | | | | | | | |
| MAINE | - | - | - | - | - | - | 1,579 | 58 |
| NEW HAMPSHIRE | - | - | - | - | - | - | 64 | 3 |
| MASSACHUSETTS | - | - | - | - | - | - | 141 | 13 |
| RHODE ISLAND | - | - | - | - | - | - | 242 | 25 |
| CONNECTICUT | - | - | - | - | - | - | 4 | 1 |
| TOTAL | - | - | - | - | - | - | 2,030 | 100 |
| MIDDLE ATLANTIC: | | | | | | | | |
| NEW YORK | - | - | - | - | - | - | 1 | (1) |
| NEW JERSEY | - | - | - | - | - | - | 747 | 80 |
| DELAWARE | - | - | - | - | - | - | 813 | 67 |
| TOTAL | - | - | - | - | - | - | 1,561 | 147 |
| CHESAPEAKE: | | | | | | | | |
| MARYLAND | - | - | - | - | - | - | 29,350 | 2,080 |
| VIRGINIA | - | - | - | - | - | - | 45,544 | 2,367 |
| TOTAL | - | - | - | - | - | - | 74,894 | 4,447 |
| SOUTH ATLANTIC: | | | | | | | | |
| NORTH CAROLINA | - | - | - | - | - | - | 15,981 | 644 |
| SOUTH CAROLINA | - | - | - | - | - | - | 4,672 | 186 |
| GEORGIA | - | - | - | - | - | - | 12,312 | 450 |
| FLORIDA, EAST COAST | 25 | 9 | - | - | - | - | 7,511 | 353 |
| TOTAL | 25 | 9 | - | - | - | - | 40,476 | 1,633 |
| GULF: | | | | | | | | |
| FLORIDA, WEST COAST | 453 | 156 | - | - | - | - | 17,568 | 895 |
| ALABAMA | - | - | - | - | - | - | 838 | 46 |
| MISSISSIPPI | - | - | - | - | - | - | 2,512 | 144 |
| LOUISIANA | - | - | - | - | - | - | 12,530 | 824 |
| TEXAS | - | - | - | - | - | - | 2,877 | 179 |
| TOTAL | 453 | 156 | - | - | - | - | 36,345 | 2,088 |
| PACIFIC COAST: | | | | | | | | |
| ALASKA | - | - | 7 | 1 | - | - | 48,010 | 4,357 |
| WASHINGTON | - | - | - | - | - | - | 7,109 | 1,075 |
| OREGON | - | - | - | - | - | - | 9,288 | 1,479 |
| CALIFORNIA | - | - | - | - | - | - | 11,863 | 1,993 |
| TOTAL | - | - | 7 | 1 | - | - | 76,270 | 8,904 |
| HAWAII | - | - | - | - | 30 | 18 | 30 | 18 |
| GRAND TOTAL | 478 | 165 | 7 | 1 | 30 | 18 | 231,606 | 17,337 |

1/ LESS THAN 500 POUNDS OR \$500.



DUNGENESS CRAB TRAP

REVIEW OF CERTAIN MAJOR FISHERIES

SUMMARY OF CRAB CATCH BY GEAR, 1961

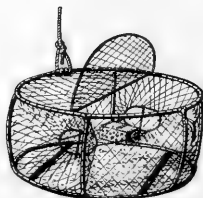
(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| GEAR | BLUE | | | | DUNGNESS | |
|----------------------------------|----------|-------|-----------------|-------|----------|-------|
| | HARD | | SOFT AND PEELER | | QUANTITY | VALUE |
| | QUANTITY | VALUE | QUANTITY | VALUE | | |
| HAUL SEINES | 4 | (1) | - | - | - | - |
| OTTER TRAWLS | 8,915 | 297 | 90 | 32 | 35 | 8 |
| WEIRS | 2 | (1) | - | - | - | - |
| POUND NETS | 133 | 6 | 878 | 229 | - | - |
| POTS | 91,817 | 4,248 | 742 | 192 | 32,664 | 4,969 |
| LINES, TROT WITH BAITS | 34,204 | 1,601 | 185 | 62 | - | - |
| DIP NETS | 2,966 | 146 | 424 | 181 | - | - |
| SCRAPES | 223 | 11 | 2,480 | 570 | - | - |
| DREDGES | 9,368 | 428 | - | - | - | - |
| BRUSH TRAPS | - | - | 274 | 137 | - | - |
| BY HAND | - | - | 33 | 9 | - | - |
| TOTAL | 147,652 | 6,737 | 5,106 | 1,412 | 32,699 | 4,977 |

| GEAR | GREEN | | KING | | ROCK | |
|-----------------|------------------------|-------|----------|-------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| | OTTER TRAWLS | - | - | 2 | (1) | 43 | 2 |
| POTS | 126 | 11 | 43,410 | 3,914 | 2,053 | 100 |
| TOTAL | 126 | 11 | 43,412 | 3,914 | 2,096 | 102 |

| GEAR | STONE | | TANNER | | OTHER | | TOTAL | |
|----------------------------------|-----------------------|-------|----------|-------|----------|-------|----------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| | HAUL SEINES | - | - | - | - | - | - | 4 | (1) |
| OTTER TRAWLS | - | - | - | - | - | - | 9,085 | 339 |
| WEIRS | - | - | - | - | - | - | 2 | (1) |
| POUND NETS | - | - | - | - | - | - | 1,011 | 235 |
| POTS | 478 | 165 | 7 | 1 | 5 | 1 | 171,302 | 13,601 |
| LINES, TROT WITH BAITS | - | - | - | - | - | - | 34,389 | 1,663 |
| DIP NETS | - | - | - | - | - | - | 3,390 | 327 |
| SCRAPES | - | - | - | - | - | - | 2,703 | 581 |
| DREDGES | - | - | - | - | - | - | 9,368 | 428 |
| BRUSH TRAPS | - | - | - | - | - | - | 274 | 137 |
| BY HAND | - | - | - | - | - | - | 33 | 9 |
| UNCLASSIFIED | - | - | - | - | 25 | 17 | 25 | 17 |
| TOTAL | 478 | 165 | 7 | 1 | 30 | 18 | 231,606 | 17,337 |

1/ LESS THAN \$500.



DUNGENESS CRAB POT

UNITED STATES OYSTER FISHERY

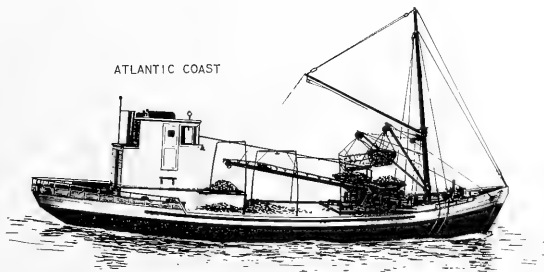
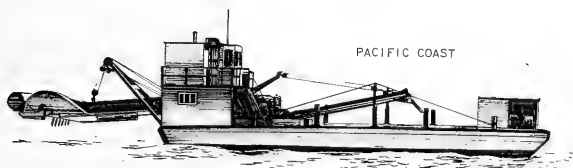
The 1961 yield of the United States oyster fishery totaled 62.3 million pounds of meats valued at \$33.2 million. Compared with 1960, this was a gain of 2.3 million pounds (4 percent) and \$4 million (14 percent). The increased quantity resulted chiefly from a rise of 2.1 million pounds in oysters taken in the Gulf States. Small gains in the Middle Atlantic and Chesapeake States were offset by decreases along the Pacific Coast.

The Chesapeake Bay area led in the production of oyster meats with a yield of 27.5 million pounds--44 percent of the 1961 catch. The Gulf States were in second place with a catch of 18.2 million pounds (29 percent), followed by the Pacific area with 10.2 million pounds (16 percent). The New England, Middle Atlantic, and South Atlantic States accounted for the remainder.

Dredges were used to take 42.4 million pounds (68 percent) of the oyster harvest while tongs (16.5 million pounds) accounted for 26 percent. The remainder of the catch was taken with grabs, rakes, forks, or gathered by hand.

In Section 13 of this Digest is a table which gives the volume of the bushel measures used for oysters in the various Atlantic and Gulf States and the average yield per bushel. Supplementary shellfish tables appear after the summary tables for each Atlantic and Gulf regional section.

Oyster Dredges



REVIEW OF CERTAIN MAJOR FISHERIES

SUMMARY OF OYSTER CATCH, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| AREA AND STATE | DREDGES | | TONGS | | CRABS | | RAKES | |
|--------------------------------|----------|--------|----------|--------|----------|-------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| NEW ENGLAND: | | | | | | | | |
| MAINE | 3 | 2 | - | - | - | - | - | - |
| MASSACHUSETTS | 17 | 17 | 54 | 72 | - | - | 7 | 5 |
| RHODE ISLAND | - | - | 7 | 7 | - | - | - | - |
| CONNECTICUT | 355 | 414 | 4 | 2 | - | - | - | - |
| TOTAL | 375 | 433 | 65 | 81 | - | - | 7 | 5 |
| MIDDLE ATLANTIC: | | | | | | | | |
| NEW YORK | 786 | 1,066 | 2 | 3 | - | - | - | - |
| NEW JERSEY | 1,019 | 851 | 81 | 83 | - | - | - | - |
| DELAWARE | 33 | 18 | - | - | - | - | - | - |
| TOTAL | 1,838 | 1,935 | 83 | 86 | - | - | - | - |
| CHESAPEAKE: | | | | | | | | |
| MARYLAND | 2,935 | 2,375 | 7,402 | 5,428 | - | - | - | - |
| VIRGINIA | 13,654 | 11,030 | 3,437 | 2,849 | - | - | 24 | 17 |
| TOTAL | 16,589 | 13,405 | 10,839 | 8,277 | - | - | 24 | 17 |
| SOUTH ATLANTIC: | | | | | | | | |
| NORTH CAROLINA | 538 | 357 | 192 | 112 | - | - | - | - |
| SOUTH CAROLINA | - | - | - | - | 1,257 | 551 | - | - |
| GEORGIA | - | - | - | - | 79 | 23 | - | - |
| FLORIDA, EAST COAST | - | - | 24 | 7 | - | - | - | - |
| TOTAL | 538 | 357 | 216 | 119 | 1,336 | 574 | - | - |
| GULF: | | | | | | | | |
| FLORIDA, WEST COAST | - | - | 3,218 | 1,020 | - | - | 14 | 5 |
| ALABAMA | - | - | 509 | 162 | - | - | - | - |
| MISSISSIPPI | 2,427 | 545 | 814 | 208 | - | - | - | - |
| LOUISIANA | 9,708 | 2,688 | 422 | 158 | - | - | - | - |
| TEXAS | 1,001 | 301 | 90 | 26 | - | - | - | - |
| TOTAL | 13,136 | 3,534 | 5,053 | 1,574 | - | - | 14 | 5 |
| PACIFIC: | | | | | | | | |
| WASHINGTON: | | | | | | | | |
| PACIFIC | 8,620 | 1,557 | - | - | - | - | - | - |
| WESTERN | 38 | 95 | - | - | - | - | - | - |
| TOTAL | 8,658 | 1,652 | - | - | - | - | - | - |
| OREGON, PACIFIC | 329 | 72 | - | - | - | - | - | - |
| CALIFORNIA: | | | | | | | | |
| EASTERN | - | - | 15 | 5 | - | - | - | - |
| PACIFIC | 985 | 210 | 220 | 81 | - | - | - | - |
| TOTAL | 985 | 210 | 235 | 86 | - | - | - | - |
| TOTAL PACIFIC STATES | 9,972 | 1,934 | 235 | 86 | - | - | - | - |
| GRAND TOTAL | 42,448 | 21,598 | 16,491 | 10,223 | 1,336 | 574 | 45 | 27 |

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

REVIEW OF CERTAIN MAJOR FISHERIES

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SUMMARY OF OYSTER CATCH, 1961 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| AREA AND STATE | FORKS | | BY HAND | | TOTAL | |
|-------------------------------|----------|-------|----------|-------|----------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| NEW ENGLAND: | | | | | | |
| MAINE | - | - | - | - | 3 | 2 |
| MASSACHUSETTS | 6 | 6 | - | - | 84 | 100 |
| RHODE ISLAND | - | - | - | - | 7 | 7 |
| CONNECTICUT | - | - | - | - | 359 | 416 |
| TOTAL | 6 | 6 | - | - | 453 | 525 |
| MIDDLE ATLANTIC: | | | | | | |
| NEW YORK | - | - | - | - | 788 | 1,069 |
| NEW JERSEY | - | - | - | - | 1,100 | 934 |
| DELAWARE | - | - | - | - | 33 | 18 |
| TOTAL | - | - | - | - | 1,921 | 2,021 |
| CHESAPEAKE: | | | | | | |
| MARYLAND | - | - | - | - | 10,337 | 7,803 |
| VIRGINIA | - | - | 48 | 35 | 17,163 | 13,931 |
| TOTAL | - | - | 48 | 35 | 27,500 | 21,734 |
| SOUTH ATLANTIC: | | | | | | |
| NORTH CAROLINA | - | - | 479 | 147 | 1,209 | 616 |
| SOUTH CAROLINA | - | - | 1,287 | 544 | 2,544 | 1,095 |
| GEORGIA | - | - | 80 | 24 | 159 | 47 |
| FLORIDA, EAST COAST | - | - | 48 | 14 | 72 | 21 |
| TOTAL | - | - | 1,894 | 729 | 3,984 | 1,779 |
| GULF: | | | | | | |
| FLORIDA, WEST COAST | - | - | 23 | 7 | 3,255 | 1,032 |
| ALABAMA | - | - | - | - | 509 | 162 |
| MISSISSIPPI | - | - | - | - | 3,241 | 753 |
| LOUISIANA | - | - | 9 | 3 | 10,139 | 2,649 |
| TEXAS | - | - | 5 | 2 | 1,096 | 329 |
| TOTAL | - | - | 37 | 12 | 18,240 | 5,125 |
| PACIFIC: | | | | | | |
| WASHINGTON: | | | | | | |
| PACIFIC | - | - | - | - | 8,620 | 1,557 |
| WESTERN | - | - | - | - | 36 | 95 |
| TOTAL | - | - | - | - | 8,656 | 1,652 |
| OREGON, PACIFIC | - | - | - | - | 329 | 72 |
| CALIFORNIA: | | | | | | |
| EASTERN | - | - | - | - | 15 | 5 |
| PACIFIC | - | - | - | - | 1,205 | 291 |
| TOTAL | - | - | - | - | 1,220 | 296 |
| TOTAL PACIFIC STATES | - | - | - | - | 10,207 | 2,020 |
| GRAND TOTAL | 6 | 6 | 1,979 | 776 | 62,305 | 33,204 |

NOTE:--THE CATCH BY HAND IN WASHINGTON AND OREGON HAS BEEN INCLUDED WITH DREDGES, AND IN CALIFORNIA HAS BEEN INCLUDED WITH TONGS.

REVIEW OF CERTAIN MAJOR FISHERIES

SUMMARY OF ATLANTIC AND GULF COAST OYSTER CATCH, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| AREA AND STATE | PUBLIC | | PRIVATE | |
|-------------------------------|---------------|---------------|---------------|---------------|
| | QUANTITY | VALUE | QUANTITY | VALUE |
| NEW ENGLAND: | | | | |
| MAINE | 3 | 2 | - | - |
| MASSACHUSETTS | 43 | 39 | 41 | 61 |
| RHODE ISLAND | 7 | 7 | - | - |
| CONNECTICUT | 4 | 3 | 395 | 413 |
| TOTAL | 57 | 51 | 396 | 474 |
| MIDDLE ATLANTIC: | | | | |
| NEW YORK | - | - | 788 | 1,069 |
| NEW JERSEY | 13 | 15 | 1,087 | 919 |
| DELAWARE | - | - | 33 | 18 |
| TOTAL | 13 | 15 | 1,908 | 2,006 |
| CHESAPEAKE: | | | | |
| MARYLAND | 8,942 | 6,667 | 1,395 | 1,136 |
| VIRGINIA | 3,195 | 2,646 | 13,968 | 11,285 |
| TOTAL | 12,137 | 9,313 | 15,363 | 12,421 |
| SOUTH ATLANTIC: | | | | |
| NORTH CAROLINA | 1,094 | 555 | 115 | 61 |
| SOUTH CAROLINA | - | - | 2,544 | 1,095 |
| GEORGIA | - | - | 159 | 47 |
| FLORIDA, EAST COAST | 38 | 11 | 34 | 10 |
| TOTAL | 1,132 | 566 | 2,852 | 1,213 |
| GULF: | | | | |
| FLORIDA, WEST COAST | 2,499 | 792 | 756 | 240 |
| ALABAMA | 414 | 119 | 95 | 43 |
| MISSISSIPPI | 2,514 | 590 | 727 | 163 |
| LOUISIANA | 1,299 | 402 | 8,640 | 2,447 |
| TEXAS | 1,021 | 306 | 75 | 23 |
| TOTAL | 7,747 | 2,209 | 10,493 | 2,916 |
| GRAND TOTAL | 21,086 | 12,154 | 31,012 | 19,030 |

SUMMARY OF OYSTER CATCH BY SPECIES, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| SPECIES | QUANTITY | VALUE |
|------------------------------|---------------|---------------|
| EASTERN: | | |
| PUBLIC | 21,086 | 12,154 |
| PRIVATE 1/ | 31,027 | 19,035 |
| TOTAL | 52,113 | 31,189 |
| PACIFIC | 10,154 | 1,920 |
| WESTERN | 38 | 95 |
| GRAND TOTAL | 62,305 | 33,204 |

1/ EASTERN, PRIVATE, INCLUDES 14,800 POUNDS OF OYSTERS, VALUED AT \$5,110 HARVESTED IN CALIFORNIA.



REVIEW OF CERTAIN MAJOR FISHERIES

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UNITED STATES SHRIMP FISHERY

The 1961 catch of shrimp in the United States totaled 174.5 million pounds valued at \$51.7 million. Compared with 1960, this was a decrease of 74.9 million pounds (30 percent) and \$15.2 million (23 percent). Landings in the South Atlantic area (19.7 million pounds) decreased 37 percent and in the Gulf States (133.8 million pounds), 35 percent, while those on the Pacific Coast amounted to 20.9 million pounds--a gain of 8.5 million pounds over 1960.

The otter trawl fleet took 168 million pounds--96 percent of the total catch. An additional 6.2 million pounds were taken by beam trawls. Bag nets, pots and traps, push nets, and cast nets accounted for the remainder.

In this Section is a detailed summary of the operating units engaged in the United States shrimp otter trawl fishery. The data include information on the fishermen employed and on the number of vessels, by tonnage classification, operated in each State and region. In 1961, there were 15,054 fishermen employed on 7,291 fishing craft which operated in the United States shrimp otter trawl fishery.

SUMMARY OF SHRIMP OTTER TRAWL VESSELS, BY TONNAGE GROUPS, 1961

| GROSS TONNAGE | SOUTH ATLANTIC | | | | | TOTAL, EXCLUSIVE OF DUPLICATION |
|-------------------------------|-------------------|-------------------|---------|------------------------|--------|---------------------------------------|
| | NORTH CAROLINA | SOUTH CAROLINA | GEORGIA | FLORIDA, EAST COAST | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| 5 - 9 | 153 | 17 | 27 | 11 | | 196 |
| 10 - 19 | 85 | 76 | 76 | 54 | | 251 |
| 20 - 29 | 45 | 38 | 64 | 63 | | 160 |
| 30 - 39 | 51 | 43 | 73 | 124 | | 195 |
| 40 - 49 | 47 | 38 | 43 | 109 | | 157 |
| 50 - 59 | 18 | 7 | 15 | 38 | | 55 |
| 60 - 69 | 4 | 5 | 11 | 31 | | 40 |
| 70 - 79 | 3 | - | 2 | 8 | | 12 |
| 90 - 99 | - | - | - | 1 | | 1 |
| 100 - 109 | - | - | 1 | 1 | | 1 |
| 120 - 129 | 1 | - | - | 1 | | 2 |
| 140 - 149 | - | - | - | 1 | | 1 |
| TOTAL VESSELS | 407 | 224 | 312 | 442 | | 1,071 |
| TOTAL GROSS TONNAGE | 8,686 | 5,972 | 9,027 | 16,623 | | 29,449 |

| GROSS TONNAGE | GULF | | | | | TOTAL, EXCLUSIVE OF DUPLICATION |
|-------------------|------------------------|---------|-------------|-----------|--------|---------------------------------------|
| | FLORIDA, WEST COAST | ALABAMA | MISSISSIPPI | LOUISIANA | TEXAS | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| 5 - 9 | 23 | 10 | 14 | 32 | 10 | 78 |
| 10 - 19 | 57 | 50 | 74 | 193 | 100 | 387 |
| 20 - 29 | 58 | 29 | 123 | 173 | 98 | 345 |
| 30 - 39 | 162 | 26 | 88 | 150 | 219 | 426 |
| 40 - 49 | 178 | 38 | 71 | 175 | 250 | 422 |
| 50 - 59 | 91 | 16 | 28 | 98 | 224 | 287 |
| 60 - 69 | 249 | 12 | 34 | 89 | 446 | 532 |
| 70 - 79 | 47 | 5 | 12 | 32 | 143 | 152 |
| 80 - 89 | 4 | - | 1 | 13 | 27 | 29 |
| 90 - 99 | 4 | - | 1 | 3 | 12 | 14 |

(CONTINUED ON NEXT PAGE)

REVIEW OF CERTAIN MAJOR FISHERIES

SUMMARY OF SHRIMP OTTER TRAWL VESSELS, BY TONNAGE GROUPS, 1961 - Continued

| GROSS TONNAGE | GULF | | | | | |
|-------------------------|------------------------|---------|------------------|-----------|--------|---------------------------------------|
| | FLORIDA, WEST COAST | ALABAMA | MISSIS- SIPPI | LOUISIANA | TEXAS | TOTAL, EXCLUSIVE OF DUPLICATION |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| 100 - 109 | 1 | - | 1 | - | 3 | 4 |
| 110 - 119 | 1 | 1 | - | 1 | 2 | 3 |
| 120 - 129 | - | - | - | 2 | 3 | 3 |
| 130 - 139 | - | - | - | - | 1 | 1 |
| 140 - 149 | - | - | - | 1 | 1 | 1 |
| 160 - 169 | - | - | - | - | 1 | 1 |
| 230 - 239 | - | - | - | - | 1 | 1 |
| TOTAL VESSELS | 875 | 187 | 447 | 962 | 1,541 | 2,686 |
| TOTAL GROSS TONNAGE | 41,250 | 6,061 | 15,142 | 35,352 | 79,044 | 114,430 |

| GROSS TONNAGE | SOUTH ATLANTIC AND GULF | PACIFIC | | | | GRAND TOTAL, EXCLUSIVE OF DUPLICATION |
|-------------------------|---------------------------------------|---------|------------|--------|---------------------------------------|---|
| | TOTAL, EXCLUSIVE OF DUPLICATION | ALASKA | WASHINGTON | OREGON | TOTAL, EXCLUSIVE OF DUPLICATION | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| 5 - 9 | 274 | - | - | - | - | 274 |
| 10 - 19 | 634 | 4 | - | 1 | 5 | 639 |
| 20 - 29 | 478 | 2 | - | 1 | 3 | 481 |
| 30 - 39 | 548 | 1 | 4 | 3 | 8 | 556 |
| 40 - 49 | 498 | 1 | 3 | 3 | 7 | 505 |
| 50 - 59 | 310 | 1 | - | - | 1 | 311 |
| 60 - 69 | 555 | 2 | - | 2 | 4 | 559 |
| 70 - 79 | 156 | 2 | 1 | 1 | 3 | 159 |
| 80 - 89 | 29 | 2 | - | - | 2 | 31 |
| 90 - 99 | 14 | - | - | - | - | 14 |
| 100 - 109 | 4 | 1 | - | - | 1 | 5 |
| 110 - 119 | 3 | - | - | - | - | 3 |
| 120 - 129 | 5 | - | - | - | - | 5 |
| 130 - 139 | 1 | - | - | - | - | 1 |
| 140 - 149 | 2 | - | - | - | - | 2 |
| 160 - 169 | 1 | - | - | - | - | 1 |
| 230 - 239 | 1 | - | - | - | - | 1 |
| TOTAL VESSELS | 3,513 | 16 | 8 | 11 | 34 | 3,547 |
| TOTAL GROSS TONNAGE | 133,413 | 772 | 333 | 474 | 1,506 | 134,919 |

SUMMARY OF SHRIMP OTTER TRAWL OPERATING UNITS, 1961

| AREA AND STATE | BOAT FISHERY | | | | |
|--|--------------|-----------|--------|--------------|-------------------|
| | BOATS | FISHERMEN | | OTTER TRAWLS | |
| | | REGULAR | CASUAL | NUMBER | YARDS AT MOUTH |
| | NUMBER | NUMBER | NUMBER | NUMBER | YARDS AT MOUTH |
| NEW ENGLAND, MAINE | 10 | 10 | - | 10 | 200 |
| SOUTH ATLANTIC: | | | | | |
| NORTH CAROLINA | 321 | 508 | 4 | 321 | 4,731 |
| SOUTH CAROLINA | 133 | 231 | - | 133 | 2,247 |
| GEORGIA | 270 | 118 | 343 | 270 | 1,959 |
| FLORIDA, EAST COAST | 23 | 39 | - | 23 | 295 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 747 | 896 | 347 | 747 | 9,132 |
| GULF: | | | | | |
| FLORIDA, WEST COAST | 104 | 147 | 10 | 104 | 1,354 |
| ALABAMA | 192 | 315 | 40 | 192 | 2,250 |
| MISSISSIPPI | 346 | 208 | 200 | 346 | 3,580 |
| LOUISIANA | 1,920 | 2,668 | 503 | 1,995 | 24,404 |
| TEXAS | 429 | 573 | 75 | 429 | 4,841 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 2,987 | 3,903 | 828 | 3,062 | 36,377 |

(CONTINUED ON NEXT PAGE)

REVIEW OF CERTAIN MAJOR FISHERIES

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SUMMARY OF SHRIMP OTTER TRAWL OPERATING UNITS, 1961 - Continued

| AREA AND STATE | BOAT FISHERY | | | | |
|---|---------------------------------|------------------|-----------|-------------------|-------------------|
| | BOATS | FISHERMEN | | OTTER TRAWLS | |
| | | REGULAR | CASUAL | | |
| | NUMBER | NUMBER | NUMBER | NUMBER | YARDS AT MOUTH |
| SOUTH ATLANTIC AND GULF, TOTAL, EX- CLUSIVE OF DUPLICATION | 3,734 | 4,799 | 1,175 | 3,809 | 45,509 |
| GRAND TOTAL, EXCLUSIVE OF DUPLICATION, | 3,744 | 4,809 | 1,175 | 3,819 | 45,709 |
| AREA AND STATE | VESSEL FISHERY | | | | |
| | VESSELS | | FISHERMEN | OTTER TRAWLS | |
| | NUMBER | GROSS TONNAGE | NUMBER | NUMBER | YARDS AT MOUTH |
| SOUTH ATLANTIC: | | | | | |
| NORTH CAROLINA | 407 | 8,686 | 895 | 521 | 9,770 |
| SOUTH CAROLINA | 224 | 5,972 | 471 | 362 | 6,464 |
| GEORGIA | 312 | 9,027 | 631 | 499 | 7,728 |
| FLORIDA, EAST COAST | 442 | 16,623 | 961 | 845 | 12,267 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 1,071 | 29,449 | 2,291 | 1,666 | 27,595 |
| GULF: | | | | | |
| FLORIDA, WEST COAST | 875 | 41,250 | 2,091 | 1,645 | 25,514 |
| ALABAMA | 187 | 6,081 | 462 | 306 | 4,793 |
| MISSISSIPPI | 447 | 15,142 | 1,152 | 710 | 11,747 |
| LOUISIANA | 962 | 35,352 | 2,613 | 1,668 | 26,595 |
| TEXAS | 1,541 | 79,044 | 4,288 | 3,002 | 45,750 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 2,686 | 114,430 | 7,186 | 4,833 | 76,655 |
| SOUTH ATLANTIC AND GULF, TOTAL, EX- CLUSIVE OF DUPLICATION | 3,513 | 133,413 | 8,961 | 6,074 | 97,547 |
| PACIFIC: | | | | | |
| ALASKA | 16 | 772 | 50 | 16 | 255 |
| WASHINGTON | 8 | 333 | 25 | 8 | 152 |
| OREGON | 11 | 474 | 37 | 11 | 203 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 34 | 1,506 | 109 | 34 | 595 |
| GRAND TOTAL, EXCLUSIVE OF DUPLICATION, | 3,547 | 134,919 | 9,070 | 6,108 | 98,142 |
| AREA AND STATE | TOTAL (BOAT AND VESSEL FISHERY) | | | | |
| | BOATS AND VESSELS | FISHERMEN | | OTTER TRAWLS | |
| | NUMBER | NUMBER | NUMBER | YARDS AT MOUTH | |
| NEW ENGLAND, MAINE, | 10 | 10 | 10 | 200 | |
| SOUTH ATLANTIC: | | | | | |
| NORTH CAROLINA | 728 | 1,407 | 842 | 14,501 | |
| SOUTH CAROLINA | 357 | 702 | 495 | 8,711 | |
| GEORGIA | 582 | 1,092 | 769 | 9,587 | |
| FLORIDA, EAST COAST | 465 | 1,000 | 868 | 12,562 | |
| TOTAL, EXCLUSIVE OF DUPLICATION | 1,818 | 3,534 | 2,413 | 36,727 | |
| GULF: | | | | | |
| FLORIDA, WEST COAST | 979 | 2,248 | 1,750 | 26,868 | |
| ALABAMA | 379 | 817 | 498 | 7,043 | |
| MISSISSIPPI | 793 | 1,560 | 1,056 | 15,327 | |
| LOUISIANA | 2,882 | 5,784 | 3,663 | 50,999 | |
| TEXAS | 1,970 | 4,916 | 3,431 | 50,591 | |
| TOTAL, EXCLUSIVE OF DUPLICATION | 5,673 | 11,917 | 7,895 | 113,032 | |
| SOUTH ATLANTIC AND GULF, TOTAL, EX- CLUSIVE OF DUPLICATION | 7,247 | 14,935 | 9,883 | 142,699 | |
| PACIFIC: | | | | | |
| ALASKA | 16 | 50 | 16 | 255 | |
| WASHINGTON | 8 | 25 | 8 | 152 | |
| OREGON | 11 | 37 | 11 | 203 | |
| TOTAL, EXCLUSIVE OF DUPLICATION | 34 | 109 | 34 | 595 | |
| GRAND TOTAL, EXCLUSIVE OF DUPLICATION, | 7,291 | 15,054 | 9,927 | 143,494 | |

NOTE:--THERE WAS NO SHRIMP OTTER TRAWL BOAT FISHERY ON THE PACIFIC COAST IN 1961.

REVIEW OF CERTAIN MAJOR FISHERIES

SUMMARY OF SHRIMP CATCH, 1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| AREA AND STATE | BAG NETS | | BEAM TRAWLS | | OTTER TRAWLS | |
|--|----------|-------|-------------|-------|--------------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| NEW ENGLAND: | | | | | | |
| MAINE | - | - | - | - | 67 | 14 |
| MASSACHUSETTS | - | - | - | - | 1 | (1) |
| TOTAL | - | - | - | - | 68 | 14 |
| MIDDLE ATLANTIC, NEW JERSEY | - | - | 5 | 5 | - | - |
| SOUTH ATLANTIC: | | | | | | |
| NORTH CAROLINA | 50 | 11 | - | - | 2,966 | 819 |
| SOUTH CAROLINA | - | - | - | - | 3,885 | 1,294 |
| GEORGIA | - | - | - | - | 6,807 | 2,370 |
| FLORIDA, EAST COAST | - | - | - | - | 6,007 | 2,434 |
| TOTAL | 50 | 11 | - | - | 19,665 | 6,917 |
| GULF: | | | | | | |
| FLORIDA, WEST COAST | - | - | - | - | 36,069 | 11,094 |
| ALABAMA | - | - | - | - | 3,525 | 1,154 |
| MISSISSIPPI | - | - | - | - | 4,408 | 1,281 |
| LOUISIANA | - | - | - | - | 31,027 | 8,913 |
| TEXAS | - | - | - | - | 58,766 | 21,208 |
| TOTAL | - | - | - | - | 133,795 | 43,650 |
| PACIFIC: | | | | | | |
| ALASKA | - | - | 4,212 | 169 | 11,610 | 464 |
| WASHINGTON | - | - | 8 | 3 | 1,437 | 119 |
| OREGON | - | - | - | - | 1,464 | 119 |
| CALIFORNIA | - | - | 2,005 | 190 | - | - |
| TOTAL | - | - | 6,225 | 362 | 14,511 | 702 |
| GRAND TOTAL | 50 | 11 | 6,230 | 367 | 168,039 | 51,283 |

| AREA AND STATE | POTS AND TRAPS | | PUSH NETS | | CAST NETS | | TOTAL | |
|--|----------------|-------|-----------|-------|-----------|-------|----------|--------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| NEW ENGLAND: | | | | | | | | |
| MAINE | - | - | - | - | - | - | 67 | 14 |
| MASSACHUSETTS | - | - | - | - | - | - | 1 | (1) |
| TOTAL | - | - | - | - | - | - | 68 | 14 |
| MIDDLE ATLANTIC, NEW JERSEY | - | - | 1 | 1 | - | - | 6 | 6 |
| SOUTH ATLANTIC: | | | | | | | | |
| NORTH CAROLINA | - | - | - | - | 22 | 7 | 3,016 | 830 |
| SOUTH CAROLINA | - | - | - | - | 3 | 1 | 3,907 | 1,301 |
| GEORGIA | - | - | - | - | 3 | 7 | 6,810 | 2,371 |
| FLORIDA, EAST COAST | - | - | - | - | 9 | 3 | 6,016 | 2,437 |
| TOTAL | - | - | - | - | 34 | 11 | 19,749 | 6,939 |
| GULF: | | | | | | | | |
| FLORIDA, WEST COAST | - | - | - | - | - | - | 36,069 | 11,094 |
| ALABAMA | - | - | - | - | - | - | 3,525 | 1,154 |
| MISSISSIPPI | - | - | - | - | - | - | 4,408 | 1,281 |
| LOUISIANA | - | - | - | - | - | - | 31,027 | 8,913 |
| TEXAS | - | - | - | - | - | - | 58,766 | 21,208 |
| TOTAL | - | - | - | - | - | - | 133,795 | 43,650 |
| PACIFIC: | | | | | | | | |
| ALASKA | 158 | 6 | - | - | - | - | 15,980 | 639 |
| WASHINGTON | 18 | 9 | - | - | - | - | 1,463 | 131 |
| OREGON | - | - | - | - | - | - | 1,464 | 119 |
| CALIFORNIA | - | - | - | - | - | - | 2,005 | 190 |
| TOTAL | 176 | 15 | - | - | - | - | 20,912 | 1,079 |
| HAWAII | - | - | - | - | - | - | (1) | (1) |
| GRAND TOTAL | 176 | 15 | 1 | 1 | 34 | 11 | 174,530 | 51,688 |

1/ LESS THAN 500 POUNDS OR \$500.

REVIEW OF CERTAIN MAJOR FISHERIES

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UNITED STATES FISH OTTER TRAWL FLEET

There are included in this Section summaries of the United States fish otter trawl fleet. They contain detailed information on the operating units engaged in this fishery and a breakdown of vessels by area, State, and gross tonnage. In 1961, 1,232 vessels of over 5 net tons and 146 motor boats were in the fish otter trawl fleet. These fishing craft employed a total of 5,353 fishermen and operated 1,417 otter trawls. In some instances, two trawls were fished by a single vessel.

SUMMARY OF FISH OTTER TRAWL VESSELS, BY TONNAGE GROUPS, 1961

| GROSS TONNAGE | NEW ENGLAND | | | | TOTAL, EXCLUSIVE OF DUPLI- CATION |
|-------------------------------|-------------|--------------------|-----------------|------------------|--|
| | MAINE | MASSA- CHUSETTS | RHODE ISLAND | CONNEC- TICUT | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| 5 - 9 | - | 3 | 2 | 2 | 7 |
| 10 - 19 | 14 | 39 | 16 | 9 | 77 |
| 20 - 29 | 11 | 45 | 17 | 8 | 70 |
| 30 - 39 | 7 | 59 | 15 | 11 | 79 |
| 40 - 49 | 5 | 46 | 13 | 3 | 56 |
| 50 - 59 | 9 | 34 | 4 | 2 | 44 |
| 60 - 69 | 4 | 31 | 1 | 1 | 35 |
| 70 - 79 | 5 | 28 | 3 | - | 34 |
| 80 - 89 | - | 16 | - | - | 16 |
| 90 - 99 | 1 | 10 | - | - | 11 |
| 100 - 109 | 1 | 11 | - | - | 12 |
| 110 - 119 | 3 | 18 | - | - | 20 |
| 120 - 129 | 1 | 8 | - | - | 9 |
| 130 - 139 | 2 | 8 | - | - | 10 |
| 140 - 149 | 1 | 4 | - | - | 5 |
| 150 - 159 | 2 | 7 | - | - | 9 |
| 160 - 169 | 3 | 6 | - | - | 6 |
| 170 - 179 | 2 | 4 | - | - | 5 |
| 180 - 189 | - | 2 | - | - | 2 |
| 190 - 199 | 1 | 5 | - | - | 6 |
| 200 - 209 | - | 1 | - | - | 1 |
| 210 - 219 | - | 3 | - | - | 3 |
| 220 - 229 | - | 3 | - | - | 3 |
| 230 - 239 | - | 1 | - | - | 1 |
| 240 - 249 | - | 3 | - | - | 3 |
| 250 - 259 | - | 3 | - | - | 3 |
| 260 - 269 | 1 | 1 | - | - | 2 |
| 290 - 299 | - | 2 | - | - | 2 |
| 300 - 309 | 2 | - | - | - | 2 |
| 310 - 319 | 2 | - | - | - | 2 |
| 320 - 329 | 2 | - | - | - | 2 |
| TOTAL VESSELS | 79 | 401 | 71 | 36 | 539 |
| TOTAL GROSS TONNAGE | 6,613 | 28,008 | 2,212 | 995 | 35,637 |

(CONTINUED ON NEXT PAGE)

REVIEW OF CERTAIN MAJOR FISHERIES

SUMMARY OF FISH OTTER TRAWL VESSELS,
BY TONNAGE GROUPS, 1961 - Continued

| GROSS TONNAGE | MIDDLE ATLANTIC | | | | CHESAPEAKE | | |
|-------------------------------|-----------------|------------|----------|---------------------------------|------------|----------|---------------------------------|
| | NEW YORK | NEW JERSEY | DELAWARE | TOTAL, EXCLUSIVE OF DUPLICATION | MARYLAND | VIRGINIA | TOTAL, EXCLUSIVE OF DUPLICATION |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| 5 - 9 | 4 | 11 | - | 14 | - | 2 | 2 |
| 10 - 19 | 37 | 26 | 1 | 64 | 11 | 14 | 25 |
| 20 - 29 | 39 | 31 | 1 | 63 | 5 | 11 | 16 |
| 30 - 39 | 16 | 20 | 2 | 37 | 4 | 6 | 11 |
| 40 - 49 | 9 | 19 | - | 26 | 2 | 9 | 11 |
| 50 - 59 | 7 | 18 | - | 22 | - | 11 | 11 |
| 60 - 69 | 5 | 15 | - | 17 | 1 | 6 | 7 |
| 70 - 79 | 8 | 15 | - | 21 | 1 | 12 | 13 |
| 80 - 89 | 4 | - | - | 6 | - | - | - |
| 90 - 99 | 2 | - | - | 2 | - | - | - |
| 100 - 109 | 2 | 1 | - | 3 | - | 1 | 1 |
| 110 - 119 | 2 | 4 | - | 5 | - | 4 | 4 |
| 120 - 129 | 3 | 1 | - | 3 | - | 2 | 2 |
| 130 - 139 | 1 | - | - | 1 | - | 2 | 2 |
| 140 - 149 | 1 | - | - | 1 | - | 2 | 2 |
| 150 - 159 | - | 1 | - | 1 | - | - | - |
| 160 - 169 | 1 | - | - | 1 | - | - | - |
| 170 - 179 | 1 | - | - | 1 | - | - | - |
| 180 - 189 | 1 | - | - | 1 | - | - | - |
| 190 - 199 | 1 | 1 | - | 1 | - | 1 | 1 |
| TOTAL VESSELS | 144 | 169 | 4 | 292 | 24 | 85 | 108 |
| TOTAL GROSS TONNAGE | 6,051 | 7,230 | 117 | 12,103 | 654 | 4,594 | 5,209 |

| GROSS TONNAGE | SOUTH ATLANTIC | | | GULF | | |
|-------------------------------|----------------|----------------|---------------------------------|-------------|-----------|---------------------------------|
| | NORTH CAROLINA | SOUTH CAROLINA | TOTAL, EXCLUSIVE OF DUPLICATION | MISSISSIPPI | LOUISIANA | TOTAL, EXCLUSIVE OF DUPLICATION |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| 5 - 9 | 5 | - | 5 | - | - | - |
| 10 - 19 | 6 | 1 | 7 | 10 | - | 10 |
| 20 - 29 | 15 | - | 15 | 23 | - | 23 |
| 30 - 39 | 12 | - | 12 | 24 | 2 | 26 |
| 40 - 49 | 15 | 2 | 17 | 11 | 1 | 12 |
| 50 - 59 | 9 | - | 9 | 11 | 1 | 12 |
| 60 - 69 | 2 | - | 2 | 4 | - | 4 |
| 70 - 79 | 2 | - | 2 | 4 | - | 4 |
| 80 - 89 | - | - | - | 2 | - | 2 |
| 90 - 99 | 1 | - | 1 | - | - | - |
| 110 - 119 | - | - | - | 1 | - | 1 |
| 120 - 129 | 1 | - | 1 | - | - | - |
| 140 - 149 | - | - | - | 1 | - | 1 |
| 150 - 159 | - | - | - | 1 | - | 1 |
| TOTAL VESSELS | 68 | 3 | 71 | 92 | 4 | 96 |
| TOTAL GROSS TONNAGE | 2,547 | 112 | 2,659 | 3,757 | 166 | 3,923 |

(CONTINUED ON NEXT PAGE)

REVIEW OF CERTAIN MAJOR FISHERIES

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SUMMARY OF FISH OTTER TRAWL VESSELS, BY TONNAGE GROUPS, 1961 - Continued

| GROSS TONNAGE | PACIFIC | | | | |
|---------------------------|---------|-----------------|--------|-----------------|--|
| | ALASKA | WASH- INGTON | OREGON | CALI- FORNIA | TOTAL, EXCLUSIVE OF DUPLI- CATION |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER |
| 5 - 9 | - | 2 | - | - | 2 |
| 10 - 19 | - | 11 | - | - | 21 |
| 20 - 29 | - | 12 | 2 | 8 | 32 |
| 30 - 39 | 1 | 15 | 7 | 13 | 35 |
| 40 - 49 | - | 28 | 9 | 11 | 52 |
| 50 - 59 | - | 20 | 15 | 7 | 34 |
| 60 - 69 | 1 | 12 | 7 | 2 | 18 |
| 70 - 79 | - | 9 | 5 | 5 | 14 |
| 80 - 89 | - | 6 | 2 | 4 | 12 |
| 90 - 99 | - | 4 | 3 | 2 | 7 |
| 100 - 109 | - | 2 | 1 | 1 | 3 |
| 110 - 119 | - | - | - | 1 | 1 |
| 190 - 199 | - | 1 | - | 1 | 1 |
| 250 - 259 | - | - | - | 1 | 1 |
| TOTAL VESSELS | 2 | 122 | 53 | 69 | 233 |
| TOTAL GROSS TONNAGE . . . | 94 | 6,091 | 2,576 | 3,445 | 11,229 |

| GROSS TONNAGE | GREAT LAKES | | | | | | GRAND TOTAL, EXCLUSIVE OF DUPLI- CATION |
|---------------------------|-------------------|--------|---------------|----------------|----------------|--|---|
| | PENNSYL- VANIA | OHIO | MICH- IGAN | WIS- CONSIN | MINNE- SOTA | TOTAL, EXCLUSIVE OF DUPLI- CATION | |
| | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | NUMBER | |
| 5 - 9 | - | - | - | - | - | - | 30 |
| 10 - 19 | - | 3 | - | 3 | - | 7 | 209 |
| 20 - 29 | 1 | - | - | 2 | 2 | 4 | 213 |
| 30 - 39 | - | - | 1 | - | - | 1 | 183 |
| 40 - 49 | - | - | 3 | 3 | - | 6 | 166 |
| 50 - 59 | - | - | - | - | - | - | 114 |
| 60 - 69 | - | - | - | - | - | - | 72 |
| 70 - 79 | - | - | - | 1 | - | 1 | 65 |
| 80 - 89 | - | - | - | - | - | - | 34 |
| 90 - 99 | - | - | - | - | - | - | 19 |
| 100 - 109 | - | - | - | - | - | - | 15 |
| 110 - 119 | - | - | - | - | - | - | 24 |
| 120 - 129 | - | - | - | - | - | - | 11 |
| 130 - 139 | - | - | - | - | - | - | 10 |
| 140 - 149 | - | - | - | - | - | - | 7 |
| 150 - 159 | - | - | - | - | - | - | 11 |
| 160 - 169 | - | - | - | - | - | - | 9 |
| 170 - 179 | - | - | - | - | - | - | 5 |
| 180 - 189 | - | - | - | - | - | - | 3 |
| 190 - 199 | - | - | - | - | - | - | 8 |
| 200 - 209 | - | - | - | - | - | - | 1 |
| 210 - 219 | - | - | - | - | - | - | 3 |
| 220 - 229 | - | - | - | - | - | - | 1 |
| 230 - 239 | - | - | - | - | - | - | 1 |
| 240 - 249 | - | - | - | - | - | - | 3 |
| 250 - 259 | - | - | - | - | - | - | 3 |
| 260 - 269 | - | - | - | - | - | - | 2 |
| 290 - 299 | - | - | - | - | - | - | 2 |
| 300 - 309 | - | - | - | - | - | - | 2 |
| 310 - 319 | - | - | - | - | - | - | 2 |
| 320 - 329 | - | - | - | - | - | - | 2 |
| TOTAL VESSELS | 2 | 3 | 4 | 9 | 2 | 19 | 1,232 |
| TOTAL GROSS TONNAGE . . . | 32 | 44 | 156 | 297 | 49 | 552 | 62,707 |

REVIEW OF CERTAIN MAJOR FISHERIES

SUMMARY OF FISH OTTER TRAWL OPERATING UNITS, 1961

| AREA AND STATE | BOAT FISHERY | | | | |
|--|----------------|------------------|-----------|--------------|-------------------|
| | BOATS | FISHERMEN | | OTTER TRAWLS | |
| | | | REGULAR | CASUAL |  | YARDS AT MOUTH |
| | NUMBER | NUMBER | NUMBER | NUMBER | |
| NEW ENGLAND: | | | | | |
| MAINE | 36 | 43 | 19 | 36 | 678 |
| MASSACHUSETTS | 9 | 14 | 2 | 9 | 136 |
| RHODE ISLAND | 13 | 14 | 11 | 13 | 211 |
| CONNECTICUT | 34 | 11 | 37 | 34 | 485 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 92 | 82 | 69 | 92 | 1,510 |
| MIDDLE ATLANTIC: | | | | | |
| NEW YORK | 11 | 19 | - | 11 | 171 |
| NEW JERSEY | 13 | 21 | 6 | 13 | 174 |
| DELAWARE | 1 | 2 | - | 1 | 20 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 25 | 42 | 6 | 25 | 365 |
| CHESAPEAKE: | | | | | |
| MARYLAND | 3 | 6 | - | 3 | 70 |
| VIRGINIA | 2 | 3 | 1 | 2 | 20 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 5 | 9 | 1 | 5 | 90 |
| SOUTH ATLANTIC: | | | | | |
| NORTH CAROLINA | 16 | 32 | - | 16 | 256 |
| SOUTH CAROLINA | 2 | 4 | - | 2 | 30 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 18 | 36 | - | 18 | 286 |
| PACIFIC, CALIFORNIA | 3 | 9 | - | 3 | 60 |
| MISSISSIPPI RIVER, WISCONSIN 1/ | 3 | 4 | 4 | 3 | 10 |
| GRAND TOTAL, EXCLUSIVE OF DUPLICATION | 146 | 182 | 80 | 146 | 2,321 |
| | VESSEL FISHERY | | | | |
| AREA AND STATE | VESSELS | | FISHERMEN | OTTER TRAWLS | |
| | NUMBER | GROSS TONNAGE | NUMBER | NUMBER | YARDS AT MOUTH |
| NEW ENGLAND: | | | | | |
| MAINE | 79 | 6,613 | 335 | 79 | 1,956 |
| MASSACHUSETTS | 401 | 28,008 | 2,475 | 401 | 10,765 |
| RHODE ISLAND | 71 | 2,212 | 240 | 71 | 1,762 |
| CONNECTICUT | 36 | 995 | 92 | 36 | 814 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 539 | 35,637 | 2,961 | 539 | 14,151 |
| MIDDLE ATLANTIC: | | | | | |
| NEW YORK | 144 | 6,051 | 479 | 144 | 3,202 |
| NEW JERSEY | 169 | 7,230 | 590 | 169 | 4,096 |
| DELAWARE | 4 | 117 | 7 | 4 | 93 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 292 | 12,103 | 984 | 292 | 6,784 |
| CHESAPEAKE: | | | | | |
| MARYLAND | 24 | 654 | 60 | 24 | 616 |
| VIRGINIA | 85 | 4,594 | 334 | 85 | 2,138 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 108 | 5,209 | 391 | 108 | 2,734 |
| SOUTH ATLANTIC: | | | | | |
| NORTH CAROLINA | 68 | 2,547 | 180 | 68 | 1,802 |
| SOUTH CAROLINA | 3 | 112 | 7 | 3 | 68 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 71 | 2,659 | 187 | 71 | 1,870 |
| GULF: | | | | | |
| MISSISSIPPI | 92 | 3,757 | 239 | 127 | 2,376 |
| LOUISIANA | 4 | 166 | 12 | 8 | 132 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 96 | 3,923 | 251 | 135 | 2,508 |

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

REVIEW OF CERTAIN MAJOR FISHERIES

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SUMMARY OF FISH OTTER TRAWL OPERATING UNITS, 1961 - Continued

| AREA AND STATE | VESSEL FISHERY | | | | |
|---|---------------------------------|---------------|-----------|--------------|----------------|
| | VESSELS | | FISHERMAN | OTTER TRAWLS | |
| | NUMBER | GROSS TONNAGE | NUMBER | NUMBER | YARDS AT MOUTH |
| PACIFIC: | | | | | |
| ALASKA | 2 | 94 | 6 | 2 | 30 |
| WASHINGTON | 122 | 6,091 | 455 | 122 | 2,678 |
| OREGON | 53 | 2,576 | 183 | 53 | 1,185 |
| CALIFORNIA | 69 | 3,445 | 295 | 69 | 1,863 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 233 | 11,229 | 668 | 233 | 5,468 |
| GREAT LAKES: | | | | | |
| PENNSYLVANIA | 2 | 32 | 7 | 2 | 40 |
| OHIO | 3 | 44 | 8 | 3 | 45 |
| MICHIGAN | 4 | 156 | 12 | 4 | 93 |
| WISCONSIN | 9 | 297 | 28 | 9 | 221 |
| MINNESOTA | 2 | 49 | 6 | 2 | 45 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 19 | 552 | 58 | 19 | 420 |
| GRAND TOTAL, EXCLUSIVE OF DUPLICATION | 1,232 | 62,707 | 5,091 | 1,271 | 30,555 |
| | TOTAL (BOAT AND VESSEL FISHERY) | | | | |
| AREA AND STATE | BOATS AND VESSELS | | FISHERMEN | OTTER TRAWLS | |
| | NUMBER | | NUMBER | NUMBER | YARDS AT MOUTH |
| | | | | | |
| NEW ENGLAND: | | | | | |
| MAINE | 115 | | 397 | 115 | 2,634 |
| MASSACHUSETTS | 410 | | 2,491 | 410 | 10,501 |
| RHODE ISLAND | 84 | | 265 | 84 | 1,973 |
| CONNECTICUT | 70 | | 140 | 70 | 1,299 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 631 | | 3,112 | 631 | 15,661 |
| MIDDLE ATLANTIC: | | | | | |
| NEW YORK | 155 | | 498 | 155 | 3,373 |
| NEW JERSEY | 182 | | 617 | 182 | 4,270 |
| DELAWARE | 5 | | 9 | 5 | 113 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 317 | | 1,032 | 317 | 7,149 |
| CHESAPEAKE: | | | | | |
| MARYLAND | 27 | | 66 | 27 | 686 |
| VIRGINIA | 87 | | 338 | 87 | 2,158 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 113 | | 401 | 113 | 2,824 |
| SOUTH ATLANTIC: | | | | | |
| NORTH CAROLINA | 84 | | 212 | 84 | 2,058 |
| SOUTH CAROLINA | 5 | | 11 | 5 | 98 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 89 | | 223 | 89 | 2,156 |
| GULF: | | | | | |
| MISSISSIPPI | 92 | | 239 | 127 | 2,376 |
| LOUISIANA | 4 | | 12 | 8 | 132 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 96 | | 251 | 135 | 2,508 |
| PACIFIC: | | | | | |
| ALASKA | 2 | | 6 | 2 | 30 |
| WASHINGTON | 122 | | 455 | 122 | 2,678 |
| OREGON | 53 | | 183 | 53 | 1,185 |
| CALIFORNIA | 72 | | 304 | 72 | 1,923 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 236 | | 897 | 236 | 5,528 |
| GREAT LAKES: | | | | | |
| PENNSYLVANIA | 2 | | 7 | 2 | 40 |
| OHIO | 3 | | 8 | 3 | 45 |
| MICHIGAN | 4 | | 12 | 4 | 93 |
| WISCONSIN | 9 | | 28 | 9 | 221 |
| MINNESOTA | 2 | | 6 | 2 | 45 |
| TOTAL, EXCLUSIVE OF DUPLICATION | 19 | | 58 | 19 | 420 |
| MISSISSIPPI RIVER, WISCONSIN 1/ | 3 | | 6 | 3 | 10 |
| GRAND TOTAL, EXCLUSIVE OF DUPLICATION | 1,378 | | 5,353 | 1,417 | 32,876 |

1/ DATA ARE FOR 1960.

SECTION 12

HISTORICAL FISHERY STATISTICS

Statistics of the fisheries of the United States are necessary for the best use of the Nation's aquatic resources. As series of data for extended periods of time are accumulated, the information becomes increasingly more valuable in indicating trends in the supply and utilization of fishery products. The extent to which these data are used is frequently dependent upon the ready availability of needed information to researchers, management officials, and members of the fishing industry.

Periodically, there are published in "Fishery Statistics of the United States" historical data for each State on the catch of important species. The most recent publication of these data was in Statistical Digest No. 43 entitled "Fishery Statistics of the United States, 1956".

The Bureau of Commercial Fisheries has in its files and in various Bureau reports or publications of other organizations a large volume of historical data. These statistics would be of considerable use to researchers and others interested in the fisheries. Unfortunately, few know of these records. To make the series readily available to researchers and others interested in the fisheries, a section entitled "Historical Fishery Statistics" has been published, since 1951, in "Fishery Statistics of the United States." The titles of the series published, and the identifying number of the Digest in which each appears, follow:

| Series | Published in Statistical Digest |
|--|------------------------------------|
| Menhaden Fishery, 1873-1951 | No. 30 |
| Oyster Fishery, 1880-1952 | No. 34 |
| Pacific Sardine Fishery, 1915-53 | No. 36 |
| Atlantic Ocean Perch Fishery, 1930-54 | No. 39 |
| Pacific Herring Fishery, 1881-1955 | No. 41 |
| United States Haddock Fishery, 1880-1956 | No. 43 |
| United States Tuna Fishery, 1911-57 | No. 44 |
| United States Atlantic Cod Fishery, 1893-1958 | No. 49 |
| Fur Seal Industry of the Pribilof Islands, 1786-1959 | No. 51 |
| Eastern Pacific Halibut Fishery, 1888-1960 | No. 53 |

The 11th series of historical data containing information on the California Mackerel Fishery is included in the following pages.

CALIFORNIA MACKEREL FISHERIES, 1889-1961

By Harry S. Davis, Fishery Reporting Specialist
Bureau of Commercial Fisheries
Fish and Wildlife Service
San Pedro, California

Landings of Pacific and jack mackerel at California ports during 1961 amounted to 141.7 million pounds valued at \$3 million. In total pounds landed at California ports, this was exceeded only by tuna; and in value received by fishermen, it was surpassed only by tuna and salmon. Prior to World War I, the mackerels were not too important to the fishing industry. However, with the advent of the canning of these fish, landings increased. The record Pacific mackerel catch of 146.4 million pounds was established in 1935; that for jack mackerel in 1952 was 146.5 million pounds. Total landings of both Pacific and jack mackerel established a combined alltime record in 1947 with landings of 175.5 million pounds.

CALIFORNIA PACIFIC MACKEREL FISHERY

The Pacific mackerel is a member of the mackerel family Scombridae which also includes the Atlantic mackerel, the tunas, bonitos, and Spanish mackerel. Prior to World War I, the Pacific mackerel remained on the list of neglected fishes, but now supports an important industry. Although it is known that mackerel were taken as early as 1839, first recorded data in 1889 listed a catch of 315,000 pounds. Prior to 1926, statistical records combined the catch of Pacific and jack mackerel although the Pacific mackerel probably accounted for most of the landings. Since 1926, they have been separated.

The fishery for Pacific mackerel is closely related to that for sardines and catches often contained both species. During the thirties and forties, landings containing the two species were often listed as sardines. This was particularly so when sardines dominated the catch. The practice resulted in a tendency to underestimate Pacific mackerel landings. However, in recent years, catch statistics have been separated more completely.

In early years, Pacific mackerel were of relatively minor importance. A few hundred to a few thousand cases were canned each year, but these experimental packs met with little success. The fish was essentially an item destined for the fresh market. Between 1916 and 1926, the average annual catch amounted to only 3 million pounds.

After years of experimenting with canning methods and studying potential markets, a plant began large-scale mackerel canning operations late in 1927. Nearly 11,000 cases were packed in that year, and production jumped to almost 400,000 cases in 1928. During this period, the Philippine Islands and southeastern Asia were important outlets for canned sardines and salmon. Mackerel canners dressed their cans with labels resembling salmon labels and sent their pack into this area for marketing. The buyers, unfamiliar with mackerel, thought they were getting salmon at a low price. Sales mounted rapidly, which disturbed salmon packers who induced the Government to persuade the mackerel canners to offer their product on its own merits. Although sales dropped sharply at first, mackerel under its own name took its place alongside the sardine and salmon. The market was established, and canned mackerel became an important factor in the California fishing industry.

With an established market for canned mackerel, landings of Pacific mackerel increased rapidly. Catches climbed from 4.7 million pounds in 1927 to 35.3 million pounds in 1928, and up to 58 million pounds in 1929. The catch was drastically curtailed in 1930 with the advent of the depression and remained low until 1933 when landings increased to nearly 70 million pounds. The catch rose to 114 million pounds in 1934 and to an alltime high in 1935, when 146.4 million pounds were taken. Since 1935, landings have fluctuated due to the availability of fish and the canners' demand for mackerel.

Most of the present-day production of Pacific mackerel is canned for human consumption. The offal (inedible parts) from canning operations are processed into oil and meal. Small amounts are canned for pet food, and about 5 to 10 percent of the catch is marketed fresh. There is no closed season for the taking of Pacific mackerel in California, and they are caught throughout the year. However, larger catches are predominantly made from August to March, with a seasonal slack during the summer.

The methods and equipment used in fishing for Pacific mackerel have been changed drastically through the years. Prior to 1926, the fish were caught mainly by lines and gill nets. Small longline craft (26 to 36 feet long) fished four to six lines averaging about 1,250 feet each. Four hundred to 500 hooks were fastened to each line by leaders measuring about 18 inches. After the lines were set, they were buoyed to help the craft recover the gear and catch. Gill net boats were about the same size as the craft using lines. Nets were generally 300 to 400 yards long and about 10 yards deep. Pacific mackerel swimming into these nets could pass only part way

HISTORICAL FISHERY STATISTICS

through a single mesh. In their struggle to get free, the twine slipped back of the gill covers preventing the fish from escaping. Fishing craft using lines or gill nets made daily trips. They sailed in the early morning and often returned with a catch before noon.

After 1927, the canners' demand for mackerel increased to the point where the supply could not be met by craft fishing lines and gill nets. It was then that the lampara net, operated by small craft, (25 to 40 feet in length) supplemented the supplies of mackerel taken by other gears. The net has a large central bunt and relatively short wings. The wings have a larger mesh than the bunt. The gear is played out from a vessel so as to surround a school of fish. The two wings are pulled simultaneously. There is no pursing device, as on a purse seine, other than the closing of the lead lines as the net is drawn through the water. The lampara is so called from the Italian word "lampo" meaning lightning. It is used chiefly in taking small fishes which move with great quickness. Although the lampara fishes fairly deep, its effective depth is not great and the fish have a chance to escape under the net before the lead line is aboard the fishing craft.

To correct the shortcomings of the lampara, modifications were made and the net gave way to the more efficient ring net and purse seine. By 1935, these gear surpassed the lampara net in volume of catch.

The ring net (also called purse lampara or half ring net) is, in effect, a lampara with a pursing arrangement whereby the lead line can be drawn together under the fish, effectively impounding them. The ring net combines the light weight, negligible bulk, speed, and low cost of the lampara with the positive action of the purse seine. The net is played out from the vessel to circle the school of fish. By the time the wings are hauled in, all the purse rings and the entire lead line are aboard concentrating the catch in the reinforced part of the bag known as the landing bay or sack.

The purse seine consists of a long wall of webbing without a prominent bunt or bag. The top edge is floated by a series of corks and the bottom edge weighted with leads. The net is pursed by drawing a purse line through a series of rings along the bottom of the net. The fish are captured by surrounding the school of mackerel, pursing the bottom of the net, and then concentrating the catch by pulling the net aboard the fishing vessel.

About this time, landings of mackerel were also increased by a fleet of small boats that employed striker or scooping techniques. The striker method of fishing utilized ground bait or chum to attract mackerel to the boat. In their frenzy to devour the chum, mackerel struck at feathered, barbless hooks attached by short lines to bamboo poles held by fishermen. The barbless hooks made it easy for the fishermen to deposit the catch aboard his craft. The scooping of mackerel was a natural outgrowth of the striker method and was accomplished by dipping the chum feeding mackerel into boats with long-hauled dip nets. The scoop was 20 to 30 inches in diameter with the pocket made of coarse chicken wire mounted on a 6- to 8-foot pole. The striker and scooping methods of fishing did not maintain their initial success, since it was found that fish taken by these gear spoiled rapidly due to their having fed on the chum.

Since 1950, purse seines have been the principal gear used to take mackerel. Vessels operating this gear range from 50 to 80 feet in length, use nylon seines, and are outfitted with power blocks. The carrying capacity of the vessels ranges from 40 to 140 tons. They carry a crew of 7 to 12 men each.

About 85 percent of the catch of the mackerel is taken at night. The success of night fishing results from the ease of locating fish during dark nights of the month. A phosphorescent glow is created by schooling fish near the surface. Fishermen often refer to this as "fire in the water."

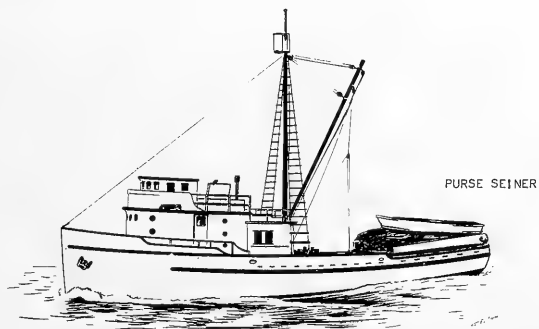
CALIFORNIA JACK MACKEREL FISHERY

The jack mackerel is not a true mackerel. Although its physical appearance is similar to mackerel, it is a member of the family Carangidae in which are also classed the jacks, scads, and pompano. Prior to 1947, the fish were known as horse mackerel by fishermen who often mistakenly identified them as Spanish mackerel. While the name was not too important when the fishery was small, the marketing of an increasing canned pack called for a more desirable name. As a result of a survey by the California Department of Fish and Game, the species has been called jack mackerel since 1947. Prior to 1926, landings records combined the catch of jack and Pacific mackerel although Pacific mackerel probably accounted for most of the landings. Since 1926, statistics on the catch of jack mackerel have been shown separately.

Jack mackerel catch records for years prior to 1926 are almost nonexistent, although it was reported that landings were made as early as 1888. Catches of 119,000 pounds and 39,000 pounds were reported in 1895 and 1908, respectively. Average annual landings between 1926 and 1932 were less than 500,000 pounds. Between 1933 and 1945, the catch fluctuated between 1 million and 12 million pounds. By 1947, the rapidly falling sardine and Pacific mackerel fisheries caused the industry to begin an intensive fishery for jack mackerel, and landings soared to 129 million pounds in that year. Landings of jack mackerel declined to 73 million pounds in 1948, and to 51 million pounds in 1949, but climbed to 133 million pounds in 1950. The 90-million-pound production in 1951 was followed by the alltime record catch for jack mackerel (146.5 million pounds) in 1952. Landings of jack mackerel tend to fluctuate according to the success or failure of the sardine and Pacific mackerel fisheries and the availability of jack mackerel to the fishing fleets.

In addition to being canned for human consumption, jack mackerel are also used in canned pet food. The offal (inedible parts) from canning operations are processed into oil and meal. There is no regulated season for the taking of jack mackerel, but the larger catches are made from September to April.

The jack mackerel and Pacific mackerel fisheries are closely related. Both species are invariably taken by the same fishing craft and gear. Since 1926, the majority of the catch of jack mackerel has been taken by lampara and ring nets and purse seines. A description of the methods and equipment used in these fisheries is contained in the narrative analyses of the California Pacific mackerel fisheries on page 417 of this report.



HISTORICAL FISHERY STATISTICS

CALIFORNIA PACIFIC AND JACK MACKEREL FISHERY, 1889-1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| YEAR | PACIFIC MACKEREL | | JACK MACKEREL | | TOTAL | |
|-------------------|------------------|-------|---------------|-------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| 1889 | 315 | 13 | (1) | (1) | 315 | 13 |
| 1890 | 312 | 13 | (1) | (1) | 312 | 13 |
| 1891 | 519 | 21 | (1) | (1) | 519 | 21 |
| 1892 | 350 | 14 | (1) | (1) | 350 | 14 |
| 1893 | (2) | (2) | (2) | (2) | (2) | (2) |
| 1894 | (2) | (2) | (2) | (2) | (2) | (2) |
| 1895 | 95 | 3 | 119 | 1 | 214 | 4 |
| 1895-96 | (2) | (2) | (2) | (2) | (2) | (2) |
| 1899 | 168 | 6 | (1) | (1) | 168 | 6 |
| 1900-03 | (2) | (2) | (2) | (2) | (2) | (2) |
| 1904 | 135 | 4 | (1) | (1) | 135 | 4 |
| 1905-07 | (2) | (2) | (2) | (2) | (2) | (2) |
| 1908 | 97 | 3 | 39 | 1 | 236 | 4 |
| 1909-14 | (2) | (2) | (2) | (2) | (2) | (2) |
| 1915 | 267 | 7 | (1) | (1) | 267 | 7 |
| 1916 | 1,114 | (2) | (1) | (2) | 1,114 | (2) |
| 1917 | 3,346 | (2) | (1) | (2) | 3,346 | (2) |
| 1918 | 4,076 | (2) | (1) | (2) | 4,076 | (2) |
| 1919 | 2,703 | (2) | (1) | (2) | 2,703 | (2) |
| 1920 | 3,048 | (2) | (1) | (2) | 3,048 | (2) |
| 1921 | 2,975 | (2) | (1) | (2) | 2,975 | (2) |
| 1922 | 2,496 | (2) | (1) | (2) | 2,496 | (2) |
| 1923 | 3,592 | 144 | (1) | (1) | 3,592 | 144 |
| 1924 | 3,241 | 87 | (1) | (1) | 3,241 | 87 |
| 1925 | 3,522 | 98 | (1) | (1) | 3,522 | 98 |
| 1926 | 3,623 | 96 | 239 | 13 | 3,862 | 109 |
| 1927 | 4,741 | 121 | 467 | 18 | 5,208 | 139 |
| 1928 | 35,262 | 617 | 540 | 18 | 35,802 | 635 |
| 1929 | 57,975 | 679 | 709 | 19 | 58,684 | 698 |
| 1930 | 16,531 | 242 | 369 | 11 | 16,900 | 253 |
| 1931 | 14,253 | 158 | 562 | 17 | 14,815 | 175 |
| 1932 | 12,474 | 95 | 536 | 14 | 13,010 | 109 |
| 1933 | 69,615 | 420 | 1,011 | 12 | 70,626 | 432 |
| 1934 | 113,848 | 720 | 1,581 | 15 | 115,429 | 735 |
| 1935 | 146,427 | 1,120 | 9,984 | 43 | 156,411 | 1,163 |
| 1936 | 100,542 | 932 | 4,599 | 38 | 105,141 | 970 |
| 1937 | 60,936 | 669 | 6,542 | 65 | 67,478 | 734 |
| 1938 | 79,648 | 859 | 4,134 | 46 | 83,982 | 905 |
| 1939 | 80,909 | 857 | 3,760 | 37 | 84,669 | 894 |
| 1940 | 120,504 | 1,280 | 1,433 | 23 | 121,937 | 1,303 |
| 1941 | 78,167 | 1,010 | 2,069 | 34 | 80,236 | 1,044 |
| 1942 | 52,564 | 985 | 5,348 | 102 | 57,912 | 1,057 |
| 1943 | 75,262 | 1,493 | 12,699 | 236 | 87,961 | 1,729 |
| 1944 | 83,657 | 1,707 | 12,777 | 229 | 96,434 | 1,936 |
| 1945 | 53,717 | 1,119 | 9,033 | 145 | 62,750 | 1,264 |
| 1946 | 53,675 | 1,431 | 15,093 | 327 | 68,968 | 1,758 |
| 1947 | 46,478 | 1,390 | 129,048 | 3,323 | 175,526 | 4,713 |
| 1948 | 39,386 | 1,381 | 72,898 | 2,136 | 112,284 | 3,517 |
| 1949 | 49,771 | 1,286 | 51,250 | 1,111 | 101,021 | 2,397 |
| 1950 | 32,650 | 794 | 133,256 | 2,572 | 165,906 | 3,366 |
| 1951 | 33,518 | 932 | 89,838 | 2,016 | 123,356 | 2,948 |
| 1952 | 20,605 | 785 | 146,522 | 4,755 | 167,127 | 5,540 |
| 1953 | 7,502 | 329 | 55,751 | 1,994 | 63,253 | 2,323 |
| 1954 | 25,393 | 809 | 17,334 | 661 | 42,727 | 1,470 |
| 1955 | 23,310 | 532 | 35,755 | 712 | 59,065 | 1,244 |
| 1956 | 50,013 | 1,065 | 75,762 | 1,532 | 125,775 | 2,598 |
| 1957 | 62,044 | 1,231 | 82,012 | 1,603 | 144,056 | 2,834 |
| 1958 | 27,648 | 672 | 22,066 | 531 | 49,714 | 1,203 |
| 1959 | 37,602 | 958 | 37,507 | 697 | 75,109 | 1,855 |
| 1960 | 36,809 | 757 | 74,945 | 1,582 | 111,754 | 2,339 |
| 1961 | 44,110 | 956 | 97,606 | 2,025 | 141,716 | 2,981 |

1/ FOR YEARS PRIOR TO 1926, EXCEPT 1895 AND 1908, THE CATCH OF JACK MACKEREL WAS COMBINED WITH THE CATCH OF PACIFIC MACKEREL.

2/ DATA NOT AVAILABLE.

HISTORICAL FISHERY STATISTICS

CALIFORNIA PACIFIC MACKEREL CATCH BY GEAR, VARIOUS YEARS, 1895-1961

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| YEAR | SEINES | | GILL AND TRAWL NETS 1/ | | LINES | | BRAIL OR SCOOP NETS | | TOTAL | |
|------|----------|-------|------------------------|-------|----------|-------|---------------------|-------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| 1895 | 11 | (2) | 18 | 1 | 66 | 2 | - | - | 95 | 3 |
| 1899 | - | - | 42 | - | 126 | 5 | - | - | 168 | 6 |
| 1904 | 15 | (1) | 73 | 3 | 47 | 1 | - | - | 135 | 4 |
| 1908 | 24 | - | 173 | 2 | - | - | - | - | 197 | 3 |
| 1926 | 1,137 | 26 | 362 | 9 | 2,124 | 59 | - | - | 3,623 | 96 |
| 1927 | 1,247 | 20 | 529 | 16 | 2,965 | 85 | - | - | 4,741 | 121 |
| 1928 | 2,257 | 444 | 282 | 5 | 7,723 | 168 | - | - | 35,262 | 617 |
| 1929 | 474 | 684 | 210 | 4 | 10,625 | 191 | - | - | 57,975 | 679 |
| 1930 | 10,935 | 116 | 128 | 3 | 5,468 | 123 | - | - | 16,531 | 242 |
| 1931 | 11,255 | 102 | 32 | (2) | 2,966 | 56 | - | - | 14,253 | 158 |
| 1932 | 10,440 | 55 | 49 | 1 | 1,965 | 39 | - | - | 12,474 | 95 |
| 1933 | 64,180 | 374 | 288 | 2 | 5,147 | 44 | - | - | 69,615 | 420 |
| 1934 | 100,120 | 634 | 32 | (2) | 13,696 | 86 | - | - | 113,648 | 720 |
| 1935 | 91,743 | 1,023 | 47 | 1 | 4,607 | 46 | - | - | 146,827 | 1,220 |
| 1936 | 91,247 | 1,023 | 21 | (2) | 10,516 | 134 | - | - | 169,827 | 1,220 |
| 1937 | 50,397 | 535 | 23 | (2) | 10,516 | 134 | - | - | 60,936 | 666 |
| 1938 | 57,333 | 614 | 54 | (2) | 22,461 | 244 | - | - | 79,644 | 859 |
| 1939 | 34,591 | 370 | 17 | (2) | 46,301 | 487 | - | - | 80,909 | 857 |
| 1940 | 57,815 | 613 | 120 | 1 | 62,569 | 666 | - | - | 120,504 | 1,280 |
| 1941 | 26,733 | 261 | 72 | 1 | 49,352 | 638 | - | - | 76,085 | 1,010 |
| 1942 | 34,548 | 361 | 54 | 1 | 36,563 | 611 | - | - | 71,111 | 787 |
| 1943 | 23,346 | 578 | 75 | 2 | 30,953 | 21 | - | - | 76,262 | 1,493 |
| 1944 | 19,572 | 403 | 41 | 2 | 667 | 18 | 44,686 | 892 | 83,657 | 1,707 |
| 1945 | 13,816 | 292 | 208 | 8 | 1,107 | 28 | 63,377 | 1,285 | 83,571 | 1,119 |
| 1946 | 26,512 | 670 | 127 | 2 | 381,566 | 745 | 27,964 | 745 | 53,675 | 1,431 |
| 1947 | 26,634 | 795 | 61 | 5 | 252 | 13 | 19,411 | 580 | 46,478 | 1,390 |
| 1948 | 11,159 | 393 | 42 | 2 | 300 | 12 | 27,685 | 974 | 39,385 | 1,381 |
| 1949 | 21,449 | 552 | 19 | (2) | 590 | 22 | 27,713 | 712 | 49,771 | 1,286 |
| 1950 | 16,671 | 451 | 41 | 1 | 359 | 12 | 13,579 | 330 | 32,650 | 794 |
| 1951 | 28,513 | 793 | 2 | (2) | 167 | 6 | 4,836 | 133 | 33,518 | 932 |
| 1952 | 17,506 | 667 | 12 | (2) | 413 | 16 | 2,674 | 102 | 20,605 | 785 |
| 1953 | 6,354 | 279 | 12 | (2) | 269 | 11 | 867 | 39 | 7,502 | 329 |
| 1954 | 21,804 | 695 | 12 | (2) | 311 | 11 | 3,274 | 103 | 25,393 | 609 |
| 1955 | 44,702 | 949 | 4 | (2) | 163 | 7 | 5,263 | 116 | 50,113 | 1,062 |
| 1956 | 56,695 | 1,124 | - | - | 161 | 3 | 5,168 | 104 | 62,044 | 1,045 |
| 1957 | 17,118 | 409 | - | - | 74 | 2 | 10,456 | 261 | 27,646 | 672 |
| 1958 | 18,474 | 461 | (2) | (2) | 17 | (2) | 19,111 | 497 | 37,602 | 958 |
| 1959 | 32,018 | 657 | - | - | 39 | 1 | 4,782 | 99 | 36,809 | 757 |
| 1961 | 41,220 | 893 | (2) | (2) | 35 | 1 | 2,895 | 62 | 44,110 | 955 |

1/ INCLUDES SMALL AMOUNTS CAUGHT BY OTHER GEARS.

2/ LESS THAN 500 POUNDS OR \$500.

NOTE:--THE CATCH BY LAMPARA AND RING NETS IS INCLUDED WITH SEINES.

HISTORICAL FISHERY STATISTICS

CALIFORNIA JACK MACKEREL CATCH BY GEAR, VARIOUS YEARS, 1895-1961

| YEAR | SEINES | | GILL AND TRAWL NETS 1/ | | LINES | | BRILL OR SCOOP NETS | | TOTAL | |
|------|----------|-------|------------------------|-------|----------|-------|---------------------|-------|----------|-------|
| | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE | QUANTITY | VALUE |
| 1895 | 104 | 1 | 15 | (2) | - | - | - | - | 119 | 1 |
| 1908 | - | - | 39 | 1 | - | - | - | - | 39 | 1 |
| 1926 | 147 | 7 | 9 | 1 | 83 | 5 | - | - | 239 | 13 |
| 1927 | 415 | 16 | 24 | 1 | 28 | 1 | - | - | 467 | 18 |
| 1928 | 505 | 17 | 31 | 1 | 4 | (2) | - | - | 536 | 19 |
| 1929 | 685 | 18 | 14 | 1 | 10 | (2) | - | - | 709 | 19 |
| 1930 | 368 | 11 | 1 | (2) | (2) | (2) | - | - | 369 | 11 |
| 1931 | 550 | 17 | 8 | (2) | 4 | (2) | - | - | 562 | 17 |
| 1932 | 519 | 14 | 12 | (2) | 5 | (2) | - | - | 536 | 14 |
| 1933 | 997 | 12 | 5 | (2) | 9 | (2) | - | - | 1,011 | 12 |
| 1934 | 1,571 | 15 | 3 | (2) | 7 | (2) | - | - | 1,584 | 15 |
| 1935 | 9,582 | 43 | 1 | (2) | 1 | (2) | - | - | 9,584 | 43 |
| 1936 | 6,536 | 30 | 14 | (2) | 1 | (2) | - | - | 6,550 | 30 |
| 1937 | 4,536 | 65 | 5 | (2) | 1 | (2) | - | - | 4,542 | 65 |
| 1938 | 4,129 | 46 | 2 | (2) | 3 | (2) | - | - | 4,134 | 46 |
| 1939 | 3,749 | 37 | 5 | (2) | 6 | (2) | - | - | 3,760 | 37 |
| 1940 | 1,400 | 22 | 23 | 1 | 10 | (2) | - | - | 1,433 | 23 |
| 1941 | 1,952 | 32 | 14 | (2) | 103 | 1 | - | - | 2,099 | 34 |
| 1942 | 1,051 | 10 | 4 | (2) | 19 | (2) | - | - | 57 | 102 |
| 1943 | 1,259 | 21 | 2 | (2) | 3 | (2) | - | - | 12,699 | 236 |
| 1944 | 12,748 | 229 | 1 | (2) | 7 | (2) | 25 | (2) | 12,777 | 229 |
| 1945 | 9,009 | 141 | 5 | 1 | (2) | (2) | 19 | 3 | 9,033 | 145 |
| 1946 | 15,068 | 327 | 18 | (2) | 3 | (2) | 4 | (2) | 15,083 | 327 |
| 1947 | 129,029 | 3,323 | 4 | (2) | 4 | (2) | 11 | (2) | 129,068 | 3,323 |
| 1948 | 72,689 | 2,136 | 1 | (2) | 1 | (2) | 7 | (2) | 72,706 | 2,136 |
| 1949 | 51,243 | 1,111 | 1 | (2) | 1 | (2) | 5 | (2) | 51,250 | 1,111 |
| 1950 | 133,223 | 2,571 | 1 | (2) | 22 | 1 | 10 | (2) | 133,256 | 2,571 |
| 1951 | 69,716 | 2,013 | 1 | (2) | 1 | (2) | 120 | 3 | 69,836 | 2,016 |
| 1952 | 143,785 | 4,665 | 5 | (2) | 1,366 | 45 | 1,366 | 45 | 146,522 | 4,795 |
| 1953 | 54,816 | 1,960 | 17 | 3 | 459 | 17 | 16 | 16 | 159,751 | 1,994 |
| 1954 | 17,105 | 652 | 63 | (2) | 83 | 3 | 3 | 3 | 17,112 | 652 |
| 1955 | 31,111 | 612 | 2 | (2) | 103 | 1 | 4,363 | 94 | 35,785 | 712 |
| 1956 | 78,404 | 1,531 | - | (2) | 100 | 2 | 4,679 | 78 | 75,762 | 1,532 |
| 1957 | 16,095 | 1,301 | 6 | (2) | 100 | 2 | 3,500 | 70 | 16,603 | 1,603 |
| 1958 | 37,446 | 895 | 19 | 1 | - | - | 6,005 | 150 | 22,066 | 897 |
| 1959 | 74,665 | 1,580 | 12 | 1 | - | - | 42 | 1 | 37,507 | 897 |
| 1960 | 2,025 | 2,025 | 16 | (2) | - | - | 68 | 1 | 74,945 | 1,582 |
| 1961 | 97,587 | 2,025 | 16 | (2) | - | - | 3 | (2) | 97,606 | 2,025 |

1/ INCLUDES SMALL AMOUNTS CAUGHT BY OTHER GEARS.

2/ LESS THAN 500 POUNDS OR \$500.

NOTE:---THE CATCH BY LAMPARA AND RING NETS IS INCLUDED WITH SEINES.

HISTORICAL FISHERY STATISTICS

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CALIFORNIA PACK OF CANNED MACKEREL, 1918-61

(STANDARD CASES)

| YEAR | CASES | VALUE | YEAR | CASES | VALUE |
|----------|-----------|-----------|----------|-----------|-------------|
| 1918 . . | 5,464 | (1) | 1940 . . | 1,400,016 | \$3,966,695 |
| 1919 . . | 5,735 | (1) | 1941 . . | 843,719 | 2,947,232 |
| 1920 . . | 3,356 | (1) | 1942 . . | 616,436 | 3,000,604 |
| 1921 . . | 1,255 | \$12,275 | 1943 . . | 831,660 | 4,379,996 |
| 1922 . . | 205 | 1,640 | 1944 . . | 992,260 | 5,096,749 |
| 1923 . . | 271 | 2,168 | 1945 . . | 638,191 | 3,590,614 |
| 1924 . . | 665 | 3,159 | 1946 . . | 723,688 | 5,599,894 |
| 1925 . . | (1) | (1) | 1947 . . | 1,477,196 | 12,571,059 |
| 1926 . . | (1) | (1) | 1948 . . | 1,018,973 | 7,541,931 |
| 1927 . . | 10,882 | 49,690 | 1949 . . | 916,810 | 5,766,415 |
| 1928 . . | 388,521 | 1,621,595 | 1950 . . | 1,393,492 | 6,959,616 |
| 1929 . . | 592,451 | 2,428,058 | 1951 . . | 1,032,581 | 6,066,011 |
| 1930 . . | 104,251 | 355,481 | 1952 . . | 1,503,233 | 11,110,276 |
| 1931 . . | 101,217 | 239,327 | 1953 . . | 592,143 | 4,995,571 |
| 1932 . . | 87,652 | 212,145 | 1954 . . | 365,733 | 2,502,672 |
| 1933 . . | 747,542 | 1,858,630 | 1955 . . | 564,429 | 3,333,979 |
| 1934 . . | 1,250,551 | 3,087,804 | 1956 . . | 1,116,343 | 6,434,860 |
| 1935 . . | 1,795,724 | 4,845,119 | 1957 . . | 1,326,584 | 7,403,682 |
| 1936 . . | 1,229,607 | 3,471,196 | 1958 . . | 404,425 | 2,657,012 |
| 1937 . . | 839,450 | 2,657,370 | 1959 . . | 586,818 | 4,234,735 |
| 1938 . . | 949,736 | 2,757,004 | 1960 . . | 934,746 | 5,803,965 |
| 1939 . . | 878,890 | 2,498,428 | 1961 . . | 1,378,353 | 8,528,649 |

1/ DATA NOT AVAILABLE.

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS OF 15 OUNCES EACH.

EXPORTS OF CANNED MACKEREL, 1949-61

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

| YEAR | QUANTITY | VALUE | YEAR | QUANTITY | VALUE |
|----------|----------|-------|----------|----------|-------|
| 1949 . . | 2,236 | 430 | 1956 . . | 2,374 | 335 |
| 1950 . . | 1,372 | 219 | 1957 . . | 17,044 | 2,146 |
| 1951 . . | 7,081 | 932 | 1958 . . | 2,308 | 333 |
| 1952 . . | 3,367 | 697 | 1959 . . | 743 | 135 |
| 1953 . . | 5,295 | 969 | 1960 . . | 1,305 | 211 |
| 1954 . . | 1,488 | 267 | 1961 . . | 3,908 | 581 |
| 1955 . . | 1,548 | 244 | | | |

NOTE:--PRIOR TO 1949, CANNED MACKEREL WAS INCLUDED WITH MISCELLANEOUS CANNED FISH.

SECTION 13

STATISTICAL SURVEY PROCEDURE

This report is another in a series of annual statistical reports containing detailed statistics, analytic textual reviews, and graphic presentations on the commercial fisheries of the United States. Included are data on the quantity and value of the commercial yield of fishery products by States, regions, waters, and gear; and the number of persons and operating units engaged in the fisheries. The publication contains data on the volume and value of processed fishery products, freezings and cold-storage holdings, foreign trade, and other related information. The report has been prepared and published by the Bureau of Commercial Fisheries, Fish and Wildlife Service, United States Department of the Interior, and is a continuation of a series inaugurated by its predecessor organizations in the Departments of Interior, Commerce, Commerce and Labor, and the United States Fish Commission.

In order that those who use the statistical data contained in this and previous reports may be informed as to the source of the figures and methods for their collection, it has been deemed advisable to outline, in moderate detail, the survey procedure followed. This procedure has been developed over a period of years, and changes in methods have been made at times when such changes have appeared to work toward general improvement. While the surveys in different sections are not made in the same manner, owing to varying facilities and records, an attempt has been made to make the data collected by various methods comparable with respect to the same year as well as over a period of years. Throughout the entire plan it has been the intention to coordinate State and federal fishery statistical work so that there will be as little duplication of effort as possible.

SECTIONAL SURVEYS

Statistical surveys of the fisheries and fishery industries of the various sections of the United States occupy by far the greatest part of the time of the personnel of the Branch of Statistics. In the course of these surveys, the field representatives visit the individual fishing localities of the various States to collect statistics on the volume and value of the catch of fish and shellfish, employment in the fisheries, quantity of

fishing gear, number and classification of fishing and transporting craft, and the volume and value of manufactured fishery products and by-products. The various phases of these surveys are discussed in detail in the sections following.

History -- The first comprehensive statistical study of the fisheries and fishery industries of the United States was made for the year 1880 by George Brown Goode, Assistant Director of the United States National Museum, and associates, with the cooperation of the Commissioner of Fisheries and the Superintendent of the Tenth Census. Data for specific fisheries, or restricted sections for years prior to 1880, also were collected in the early survey and recorded in Mr. Goode's reports. The survey for 1880, however, did not include the Mississippi River and its tributaries. Periodic general surveys of a limited number of States or limited areas of the United States were made for the years from 1880 to 1907 and from 1909 to 1928. The first complete statistical canvass of the entire United States was made for 1908 by the Bureau of the Census. The next general survey of the entire United States was not made until 1931, although complete data for all sections, excluding the Mississippi River and its tributaries, were collected for 1929 and 1930. Complete data on the catch and operating units for these same sections were also collected for 1932. In the latter survey, however, lack of sufficient funds prohibited collection of data on the wholesale and manufacturing operations except those data collected as a part of the canned fishery products and byproducts survey. Various sections were surveyed during the years from 1933 to 1949, inclusive. A complete survey of all sections of the country was made for 1950. Since 1951, all of the coastal areas were canvassed annually, and catch records were obtained for the Lakes section. Complete operating unit and catch data have been obtained for all areas since 1954, except that only a partial survey of the Mississippi River and its tributaries was made for 1961. Data on the wholesale and manufacturing industries were collected in all of the surveys from 1933 to 1940, inclusive. In the years from 1941 to 1949, inclusive, and in 1951, lack of experienced personnel and budgetary limitations precluded the collection of data on wholesale and manufacturing firms except for those data collected as part of the canned fishery products, industrial products, and packaged fish surveys.

A chart on page 495 of "Fishery Statistics of the United States, 1960"-Statistical Digest 53 indicates the years for which surveys have been made in the various sections. Information concerning the completeness of the surveys in the various sections is contained in the following paragraph.

Since the surveys of the fisheries have varied in completeness three legends have been used for the years shown in the chart to indicate whether complete, partial, or no surveys were conducted in the individual regions. The designation "complete survey" has been used to indicate that basic operating unit and catch data were obtained and that complete information was collected on employment in wholesale and manufacturing establishments and on the production of manufactured fishery products. The legend "partial survey" usually indicates that operating unit and catch statistics were collected, but that no information was obtained on employment in wholesale and manufacturing establishments and that only partial data were obtained on the production of manufactured fishery products. In some instances the designation "partial survey" is used for regions in which only catch statistics were collected. The legend "no survey" indicates that a general canvass was not conducted to obtain operating unit, catch, employment in wholesale and manufacturing plants, and complete manufactured products data. Although the chart indicates that in certain regions no surveys were conducted, some information may be available on the landings at certain important ports. Likewise, information on the catch of certain species, such as menhaden, may be available as a result of data collected in connection with the annual canned fish and byproducts survey. Data on the annual production of canned fishery products and byproducts have been collected for all regions since 1921, while information has been obtained on the production of packaged fish for 1926 and annually since 1928.

A bibliography listing the various surveys made since 1880 and the publications in which the results were published appeared in Statistical Digest No. 43, "Fishery Statistics of the United States, 1956." A list of the statistical bulletins in the Current Fishery Statistics series published during 1961 may be found in Section 16 of this digest.

Field Personnel--The statistics contained in this volume have been collected by a group of trained fishery reporting specialists of the Bureau.

Period Covered--These specialists are assigned permanent field stations, generally in the principal port within their field, and travel from that station in conducting their various surveys. Most of the reporting agents collect statistics on landings for the current year, and assemble final operating unit, catch, and manufactured products data for the previous year. It is usually three to ten months after the end of the calendar year for which they are collecting data before the final figures for the digest are available. The data are tabulated and prepared for publication before the end of the year. The figures are collected and published on a calendar year basis. Prior to 1930, statistics on the catch of oysters in the Atlantic and Gulf States were collected for the oyster season; that is, from September to April, inclusive. Beginning with 1930 and continuing to the present time, they have been collected on the basis of the calendar year.

Scope--The coastal statistical surveys include canvasses of the commercial fisheries of the oceans, bays, and coastal rivers as far inland as commercial fishing is important. This usually coincides with the range of commercial fishing for anadromous species. Statistics on the fisheries of the Mississippi River include those of the Mississippi River proper as well as all of its tributaries wherein commercial fishing for either fish, crustaceans, or mollusks is carried on. Statistics on the fisheries of the Great Lakes cover canvasses of the fisheries in the lakes proper, adjacent bays, the International Lakes of northern Minnesota, and rivers which sustain a commercial fishery having outlets into these waters. Statistics on the fisheries of Florida include the commercial fisheries in Lake Okeechobee and other inland lakes. Surveys for statistics of the wholesale and manufacturing fishery industries cover plants located in the coastal, river, and lake areas adjacent to the waters mentioned above.

Methods of Collection--There are several methods used in the collection of fishery

STATISTICAL SURVEY PROCEDURE

statistics, each of which has been carefully studied to obtain the best results with available personnel and funds. In most instances the field personnel obtain from local customs officials lists of fishing vessels and names of owners of these craft. Also it is usually possible to obtain the names of licensed commercial fishermen, fishing craft, and some statistics on the catch, from State fishery agencies; from other State, county, or city sources; or from private organizations.

Using available preliminary records as a guide, the field specialists visit each fishing community in their field unless these preliminary records are so complete that personal visits may be eliminated. If complete catch data are not available from central sources, wholesale dealers and manufacturers of fishery products are visited and data are obtained from them on their purchases of fish and shellfish. It is impossible for the few Bureau representatives available for this work to interview each fisherman in a given locality. However, the more important areas and a sufficient number of areas of lesser importance are visited to obtain reliable information on production, the number of fishing craft engaged, the quantity of gear operated, catch by gear and waters, and the number of persons employed as fishermen.

The Bureau's role with regard to fishery statistics is principally that of coordinating the collection of information, assembling, analyzing, publishing, and disseminating fishery data. The collection of basic operating unit and catch statistics is primarily a State function. The State fishery agencies in a number of States have developed relatively complete statistical systems which greatly facilitate the Bureau's surveys in these States. In such instances, the Bureau conducts only such surveys as may be necessary to make the data comparable with those of other States.

The Bureau obtains from the records of the State fishery agencies most of the catch statistics for the fisheries of the Great Lakes, the northern Mississippi River area, and the International Lakes of northern Minnesota. To obtain data on the number of fishermen, boats, vessels, and gear, the Bureau conducts such personal surveys among the fishermen as may be necessary

to supplement the State records.

Bureau statistical personnel are stationed at Seattle, Washington and San Pedro, California for the purpose of surveying the fisheries of Washington, Oregon, and California. They obtain from the records of the State fishery departments figures on the volume of the catch and operating units. The value of the catch is derived from State and dealers' records. In Washington and Oregon, data for operating units in the offshore fisheries are obtained from the records of various fishery organizations as well as from records of the State fishery agencies. Statistics of the wholesale fishery industry for this section are obtained largely by personal interviews.

In many States, the Bureau and the fishery agency of the respective States cooperate in the collection and publication of current monthly and annual data on the catch. These data form the basis of the annual catch figures published in this report for the following States: Maine, Massachusetts, Rhode Island, New York, New Jersey, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, Texas, California, Ohio, Michigan, and Wisconsin.

In the administration of the Alaska fisheries, the State requires that copies of all receipts for fish and shellfish purchases from fishermen be furnished to the Alaska Department of Fish and Game. The data on these tickets are compiled and made available to the Bureau. The summary data, by districts, are reproduced in this report.

Statistics on the volume of the catch of fish in the Great Lakes States usually are shown in weights as landed, which may be in the round or drawn condition. Statistics on the volume of the catch of fish taken in the remainder of the United States are usually shown in round weight.

The figures in the tables for shellfish represent the weight of the meats in the cases of univalve and bivalve mollusks, and the round weight of crustaceans and such mollusks as squid and octopus.

Shore and Vessel Fisheries--In general, statistics of the shore fisheries, as collected by the Bureau's representatives, include

data on the number of casual and regular fishermen; number of motor and other fishing boats (craft of less than 5 net tons capacity are called "boats"); type and quantity of gear used; and the volume, value, and method of capture of each species for each locality or group of localities. This method is not followed in some sections where the availability of data collected by the State fishery agencies obviates the necessity of detailed locality surveys.

Statistics of the vessel fisheries include data on the number in the crew; rig of vessels; gross tonnage; kind and quantity of gear used; and volume, value, and method of capture of each species. Craft having a capacity of 5 net tons or over are called "vessels." As in the shore fisheries, the availability of figures collected by State fishery agencies may eliminate the necessity of Bureau agents collecting these data for individual vessels. Information on the year vessels were built was assembled for 1961.

Statistics on the quantity of gear operated indicate the maximum number of units fished at any one time during the year. Gear carried in reserve for replacement is not reported.

All persons engaged in commercial fishing operations are included as fishermen. In most areas fishermen not on vessels have been divided into "regular" and "casual". Regular fishermen are defined as those who receive more than one-half their annual income from fishing; whereas casual fishermen are those who receive less than one-half their annual compensation from fishing. On the Pacific Coast, it has not been possible to separate regular from casual fishermen.

Since 1942, the catch of fish and shellfish has been credited to the port at which it was landed. Prior to the survey for that year, it was the practice of the Bureau to credit the entire catch of a vessel to the principal port at which fish or shellfish were unloaded, regardless of the actual point of landing. This policy was discontinued since it quite often resulted in inconsistencies by crediting catches of some species to areas far removed from localities in which they are commonly taken. An outstanding example of this is the southern trawl fishery conducted off the New Jersey, Maryland, Virginia, and North Carolina coasts. Some fishing vessels from New

England operate in this fishery for 6 to 10 weeks during the winter season. Prior to the survey for 1942, the catch of these vessels, consisting principally of fish common to Middle Atlantic waters, was credited to Massachusetts. Under the present system, this catch is credited to the Middle Atlantic ports where it is landed.

Since 1949 on the Pacific Coast and 1951 for the remainder of the country, craft, fishermen, and gear have been reported for each State in which they fished. A total exclusive of duplication is shown for each section, and for the United States as a whole. Prior to the surveys for 1949, each craft on the Pacific Coast was credited to its home port unless it did not fish from that port during the year. In that case, it was credited to the locality where it landed the greatest portion of its catch. Prior to the survey for 1951, each craft on the Atlantic and Gulf Coasts and interior waters was credited to the port where it landed the greatest portion of its catch during the year. This system was changed to provide more accurate data on the total number of craft operating in a given State. With the increased mobility of the fishing fleet in recent years, the number of vessels fishing in more than one State has increased greatly.

Beginning with data for 1951, the reporting of units of gear was standardized so that nets or lines made up of small units for ease in handling, but fastened together in fishing, were counted as a single unit rather than as a number of smaller units. Prior to 1951, the small units were sometimes counted as individual pieces of gear even though they were combined for fishing. This rule does not apply to halibut longlines or setlines on the Pacific Coast. In this fishery each skate of gear is counted as one line, even though they are fastened together in fishing, because the International Pacific Halibut Commission uses a skate of gear as a unit in its studies of fishing intensity.

Publication of Data--Statistics on employment in the fisheries, craft and gear engaged, quantity and value of catch, and certain data on industries related to the fisheries are summarized according to geographic divisions and published in bulletin form as soon as possible after the completion of each survey. Later, the figures, in more detail, are included in the

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annual statistical report of the Bureau entitled "Fishery Statistics of the United States."

Data on the operating units (fishermen, fishing craft, and gear) and catch by counties for the Atlantic and Gulf States have been included in these annual statistical reports for the years from 1928 to 1938 except for 1932. These data have also been published in the digests for the years 1945, 1950, 1955, and 1960. County data were collected for the State in which surveys were conducted during the years since 1938, except for Maryland. Between 1942 and 1959, only operating unit data by counties have been obtained for Maryland. Complete data were obtained for 1960. County data assembled for the years since 1938, which were not published in the Digest, are on file in the Washington office of the Bureau.

LOCAL AND SPECIAL SURVEYS

Landings at Certain Massachusetts Ports--Detailed statistics are collected on the landings of aquatic products by individual fishing craft at Boston, Gloucester, New Bedford, Plymouth, Provincetown, and other Cape Cod ports. Bureau representatives are stationed at the principal ports. They obtain figures on the quantity and value of fish landed daily by fishing craft, the dates of departure and arrival of the craft, the gear used in their capture, the grounds from which the fish were taken, and other related information. The Bureau's Division of Biological Research and the Branch of Market News cooperate in the collection of these data.

Statistics on landings at the above ports are released monthly and annually in bulletin form, and detailed data are published in the annual statistical digest. Products of American fisheries received duty free at Boston and Gloucester from the treaty coasts of Newfoundland, Magdalen Islands, and Labrador, have not been included in the landings at these ports since 1938. Data on the landings at Boston and Gloucester have been collected annually since 1893. Information on landings at New Bedford has been collected annually since 1938 and at Plymouth, Provincetown, and other Cape Cod ports since 1945.

Shad and Alewife Fisheries--Owing to the importance of the Hudson and Potomac

Rivers in the production of shad, surveys for statistics of the catch, value of the catch, and operating units are made annually. On the Potomac River similar statistics are also obtained for the alewife fishery. Much of the data required for these surveys is available from the State fishery agencies.

Annual data on the shad and alewife fisheries are not published separately in bulletin form. However, a summary is published in the annual statistical digest.

Statistics on the Hudson River shad fishery are available for 1896, 1897, 1898, 1901, 1904, 1910, and annually since 1915, while data for the Potomac River shad fishery are available for 1896, 1901, 1904, 1909, 1915, from 1919 to 1942, inclusive, and annually since 1944. Statistics of the Potomac River alewife fishery are available for 1896, 1909, 1915, from 1919 to 1942, inclusive, and annually since 1944.

Pacific Halibut Fishery--Statistics on the Pacific halibut fishery are obtained primarily from the International Pacific Halibut Commission. Beginning with data for 1956 the fleet classification of halibut craft was revised and vessels were credited in operating unit tables to each district in which they landed fish; the only exception being that United States vessels landing at Prince Rupert, British Columbia, are credited to Southeastern Alaska. Duplication of halibut craft which operated in more than one district has been eliminated in regional and national totals. The catch by the halibut fleet is credited to the port of landing except that fish landed by United States halibut craft in British Columbia is credited to Southeastern Alaska. Halibut statistics are also included in the monthly and annual summaries published by the Seattle Market News Office. Statistics on the landings of halibut at Pacific Coast ports have been collected since 1925.

South Atlantic and Gulf of Mexico Shrimp Fishery--Detailed statistics on the quantity and value of shrimp, by variety and size, landed at South Atlantic and Gulf ports, have been collected for the Gulf area since 1956 and the South Atlantic since 1957. Since 1956, Bureau agents have also obtained daily information on the number of fishing trips, area and

depth fished, and time spent in fishing by craft landing at United States ports in the Gulf of Mexico. The Branch of Market News, the Bureau's Branch of Marine Fisheries of the Division of Biological Research, and various fishery agencies of the southern States cooperate in the collection of these data.

Detailed monthly and annual summaries of the statistics on shrimp landings are published in bulletin form and are summarized in the annual statistical digests.

Hawaiian Fisheries--The volume and value, by species, of the catch landed monthly in the State of Hawaii are furnished the Bureau by the Department of Land and Natural Resources, Division of Fish and Game, Honolulu, Hawaii. Although these data have been published in the Hawaii section of the Digest since 1946, it was not until 1959 that operating unit, catch, and manufactured products data, although incomplete, were included in the national summary table together with those for other States. The common and scientific names of the species of fish and shellfish landed in Hawaii are not included in Section 14 of this report.

Historical Fishery Statistics--The Bureau of Commercial Fisheries has in its files and in various Bureau reports or publications of other organizations a large volume of historical data on fisheries. Beginning with the 1951 Digest, a section entitled "Historical Fishery Statistics," which includes complete historical information on selected species, has been carried. There is published each year a listing of the titles of the series of data appearing in earlier editions.

Menhaden Purse Seine, Shrimp and Fish Otter Trawl, and Salmon Troll Fleets--Beginning with 1957, detailed data have been published in Section 12 of these digests on the menhaden purse seine and otter trawl fleets. Similar data for the salmon troll fishery have been included since 1960. The summary operating unit data include information for craft in these fisheries by area, State, and gross tonnage. Prior to 1957, these data were not available since it was impossible to determine from regular operating unit tables the duplication between areas in fishermen and craft.

Canned Fishery Products and Industrial Products--Beginning in 1921, the Bureau has made annual surveys for statistics of the canned fishery products and industrial products of every section. These are started the first week in January of each year for statistics on the production in the preceding year. So far as possible, the Bureau obtains by mail, for each domestic canned fishery products and industrial plant, figures on its annual production. Where it is impossible to obtain the information by mail, the report is secured by a Bureau agent. Included in the data obtained are statistics on the yield and value of the canned products by type of commodity, can size, and area of production. Data on industrial products are obtained by commodity and area of production. The value shown for canned and industrial products is in the gross amount received by the packer at the production point. No deductions are made for commissions or expenses.

Annual statistical bulletins are issued on this trade, and detailed statistics are published in the annual statistical digest. Prior to 1921, canned and industrial products data were not collected for the entire country. However, data on the production of these products were usually obtained for the areas in which general canvass surveys were conducted.

Fish Meal and Oil--Data are collected monthly on the domestic production of fish meal, body oil, fish solubles, and homogenized condensed fish. This information is released monthly and annually in the Bureau's Current Fishery Statistics series of bulletins.

Packaged Fish Trade--Statistics on the annual production and value of fish packaged in the United States, exclusive of the States of Alaska and Hawaii, are obtained in conjunction with the canned and industrial fishery products survey. These data are released annually in bulletin form and in the annual statistical digest. Statistics on the production of packaged fish are available for 1926 and annually since 1928, except that no data were collected in California for the years 1941 to 1946, inclusive.

Fish Sticks and Portions--Quarterly information is collected and published on

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the production and value of cooked and raw fish sticks and breaded, cooked, and raw fish portions, and unbreaded fish portions. The data are released in the Bureau's Current Fishery Statistics series of bulletins.

Cold-Storage Holdings of Fish-- Information on the monthly freezings and holdings of fishery products is obtained from cold storage warehouses by mail and by Bureau employees. Data are also obtained on the holdings of certain cured fish. Bulletins showing these statistics are issued monthly and annually.

Detailed cold-storage statistics also are published in the Bureau's annual statistical digest. Information regarding cold-storage holdings of fishery products has been published since 1917, while data on the quantity of fish frozen have been released for the years from 1920 to 1925, inclusive, and annually since 1928.

Foreign Fishery Trade-- Statistics on foreign fishery trade are obtained from compilations made by the Bureau of the Census, Department of Commerce. Statistics on all known imported or exported fishery products have been assembled and published annually since 1926 in the Bureau's statistical digest. For earlier years, figures are available in the reports of the Bureau of the Census, Bureau of Foreign and Domestic Commerce, the Bureau of Statistics, the Department of Commerce and Labor, or the Treasury Department.

PRACTICES AND TERMS

Certain practices and terms used in this report are explained below.

Operating Units-- Operating units as referred to in this report include persons employed in the fisheries, and craft and gear engaged in the fisheries.

Vessel-- The term "vessel" refers to a craft having a capacity of 5 net tons or over.

Boat-- The term "boat" refers to a craft having a capacity of less than 5 net tons.

Days Absent-- In computing "days absent" for vessels landing fares at certain Mas-

sachusetts ports, the day of arrival, but not the day of departure is included; thus, a vessel leaving port on the 8th of the month and returning on the 15th of the month will be credited with 7 days absence. Prior to 1944, "days absent" included both the day of departure and the day of arrival.

Days Fished-- In computing "days fished" for fishing craft landing shrimp at Gulf of Mexico ports, the total number of hours spent in fishing effort has been divided by 24.

Fish-- The term "fish" as used in this report includes all species belonging to the class Pisces.

Shellfish, etc.-- A shellfish is an aquatic invertebrate animal having a shell, such as a mollusk or crustacean. However, in order to reduce the classifications appearing in the catch tables, all items not properly listed as "Fish" or "Whale Products" have been included under "Shellfish, etc." Accordingly, there is included under this classification turtles, frogs, sponges, seaweed, and worms.

Whale Products-- Since data are not available on the poundage of whales taken, statistics appearing in catch tables on the yield of these mammals represent the weight of products produced such as meal, sperm oil, whale oil, etc. The values shown represent the amount received by the manufacturer for the products.

Incidental Catch-- The term "incidental catch" refers to the catch of certain species by a type of gear which ordinarily does not capture such species.

Percentages-- Percentages are usually shown as whole numbers. Fractions of percents are dropped if less than five-tenths, and the percentage is raised to the next higher integer if the fraction is greater than five-tenths. If the fraction is exactly five-tenths, odd integers are raised to the next even figure while even integers remain unchanged.

Converting-- Many of the figures shown in the summary tables published herewith have been converted to thousands of pounds or thousands of dollars. In making these conversions the sum of the items in a table is raised or low-

ered to the nearest thousand in accordance with standard statistical procedures. The individual items are adjusted to conform to the total thus obtained.

Confidential Data -- The statistical data collected by the Bureau are confidential, and, unless specific authorization is given, are not released in a manner that would divulge private enterprise.

CONVERSION FACTORS

It is the policy of the Bureau to show detailed catch figures of all products in pounds for the sake of uniformity and for purposes of comparison. This represents little difficulty in the case of fish, since in very rare instances are fish reported in units of measure other than pounds. For shellfish, however, the units of measure may be bushels, sacks, barrels, numbers, gallons of meats, etc. These many units make standardization difficult, and when combined with the wide variation in the requirements or definitions of some of these units in the various states, the problem becomes even more complex.

All univalve and bivalve mollusks (except fresh-water mussel shells) are reported in pounds

of meats in the detailed catch tables presented in this report. In addition, there are included supplementary tables for most of the sections, which give data on the production in bushels. These supplementary tables also give the production in number of certain other shellfish, such as crabs. There also is included in the General Review section of this report a table containing data on the shell weight of univalve and bivalve mollusks taken.

Oysters -- Probably the greatest problem in the presentation of fishery statistics in uniform units of measure is in the case of oysters. Usually the production of oysters on the Atlantic and Gulf Coasts is reported to Bureau personnel in bushels. Prior to the data obtained for the year 1930, bushels were converted to pounds of meats on the basis of a uniform yield of 7 pounds of meats to the bushel. However, it was found that there was considerable variation in the yield of oysters per bushel particularly in southern states where the yield has ranged as low as half the conversion factor used prior to 1930. There follows a table which gives the measures used for oysters in the various States and the average yields per bushel. The statistical tables in this report are based on these average yields.



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MEASURES AND YIELDS OF OYSTERS

| STATE | CAPACITY OF STATE BUSHEL | VARIATION FROM U.S. STANDARD BUSHEL | | | YIELD OF MARKET OYSTERS, 1961 | |
|-------------------------------|--------------------------|-------------------------------------|--------------|---------|-------------------------------|----------------------|
| | | CUBIC INCHES | CUBIC INCHES | PERCENT | STATE BUSHEL | U.S. STANDARD BUSHEL |
| | | | | | POUNDS OF MEATS | POUNDS OF MEATS |
| MAINE | 2,150.4 | - | - | 7.50 | 7.50 | |
| MASSACHUSETTS | 2,150.4 | - | - | 6.50 | 6.50 | |
| RHODE ISLAND | 2,150.4 | - | - | 7.00 | 7.00 | |
| CONNECTICUT | 2,150.4 | - | - | 7.70 | 7.70 | |
| NEW YORK | 2,150.4 | - | - | 7.50 | 7.50 | |
| NEW JERSEY | 2,257.3 | + 106.9 | + 5.0 | 7.95 | 7.57 | |
| DELAWARE | 2,257.3 | + 106.9 | + 5.0 | 7.83 | 7.46 | |
| MARYLAND | 2,600.7 | + 650.3 | + 30.2 | 6.33 | 4.86 | |
| VIRGINIA | 3,003.9 | + 853.5 | + 39.7 | 6.12 | 4.38 | |
| NORTH CAROLINA | 2,601.9 | + 651.5 | + 30.3 | 6.76 | 5.19 | |
| SOUTH CAROLINA | 4,071.5 | + 1,921.1 | + 89.3 | 6.02 | 3.18 | |
| GEORGIA | 5,343.9 | + 3,193.5 | +148.5 | 7.18 | 2.89 | |
| FLORIDA, EAST COAST | 3,214.1 | + 1,063.7 | + 49.5 | 6.43 | 4.30 | |
| FLORIDA, WEST COAST | 3,214.1 | + 1,063.7 | + 49.5 | 6.08 | 4.07 | |
| ALABAMA | 2,826.2 | + 675.8 | + 31.4 | 6.37 | 4.85 | |
| MISSISSIPPI | 2,826.2 | + 675.8 | + 31.4 | 5.28 | 4.02 | |
| LOUISIANA | 2,148.4 | - 2.0 | - 0.1 | 4.57 | 4.57 | |
| TEXAS | 2,700.0 | + 549.6 | + 25.6 | 6.10 | 4.86 | |

NOTE:--THE CAPACITY OF A U.S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

AVERAGE YIELDS OF CERTAIN MOLLUSKS

(POUNDS OF MEATS PER U.S. STANDARD BUSHEL)

| STATE | CLAMS | | | | | | PERT-WINKLES AND COCKLES | SCALLOP | | | MUSSELS, SEA | CONCHS |
|-------------------------------|--------|---------|--------------|-------|-------|-------|--------------------------|---------|--------|------|--------------|--------|
| | HARD | | OCEAN QUAHOG | SOFT | SURF | RAZOR | | BAY | CALICO | SEA | | |
| | PUBLIC | PRIVATE | | | | | | | | | | |
| MAINE | 11.00 | - | - | 15.00 | - | - | 18.00 | - | - | 6.00 | 15.00 | - |
| MASSACHUSETTS | 11.00 | 11.00 | - | 13.00 | 11.00 | 16.00 | - | 6.00 | - | 6.00 | 10.00 | 15.00 |
| RHODE ISLAND | 12.00 | - | 10.00 | 13.00 | - | - | - | 6.00 | - | 6.00 | 10.00 | 15.00 |
| CONNECTICUT | 12.00 | - | - | 13.00 | - | - | - | 6.20 | - | - | - | 15.00 |
| NEW YORK | 12.00 | 12.00 | - | 16.00 | 17.00 | 16.00 | - | 6.00 | - | 6.00 | 10.00 | 15.00 |
| NEW JERSEY | 10.00 | 10.00 | - | 12.00 | 17.00 | - | - | 7.50 | - | 6.00 | - | 20.00 |
| DELAWARE | 8.00 | 8.00 | - | - | - | - | - | - | - | - | - | - |
| MARYLAND | 6.00 | - | - | 12.00 | 17.00 | - | - | - | - | - | - | 20.00 |
| VIRGINIA | 8.00 | 8.00 | - | 12.00 | - | - | - | - | - | 6.00 | - | 20.00 |
| NORTH CAROLINA | 7.97 | - | - | - | - | - | - | 6.00 | 4.37 | - | - | - |
| SOUTH CAROLINA | 6.75 | - | - | - | - | - | - | - | - | - | - | - |
| FLORIDA, EAST COAST | 6.00 | - | - | - | - | - | - | - | 5.00 | - | - | 14.00 |
| FLORIDA, WEST COAST | 5.20 | - | - | - | - | - | - | 5.28 | - | - | - | 14.00 |

AVERAGE NUMBER OF CRABS PER POUND

| STATE | BLUE | | GREEN | ROCK | STONE | HORSESHOE |
|-------------------------------|--------|-----------------|-------|------|-------|-----------|
| | HARD | SOFT AND PEELER | | | | |
| | NUMBER | NUMBER | | | | |
| MAINE | - | - | - | 3.00 | - | - |
| NEW HAMPSHIRE | - | - | 14.29 | 3.00 | - | - |
| MASSACHUSETTS | - | - | 14.29 | 3.00 | - | - |
| RHODE ISLAND | - | - | 13.79 | 3.00 | - | - |
| CONNECTICUT | 2.40 | - | - | - | - | - |
| NEW YORK | 2.40 | - | - | - | - | - |
| NEW JERSEY | 2.00 | 3.43 | - | 3.00 | - | 0.25 |
| DELAWARE | 2.40 | 4.00 | - | - | - | - |
| MARYLAND | 2.40 | 4.00 | - | - | - | - |
| VIRGINIA | 2.99 | 5.77 | - | - | - | - |
| NORTH CAROLINA | 3.00 | 3.00 | - | - | - | - |
| SOUTH CAROLINA | 2.52 | - | - | - | - | - |
| GEORGIA | 2.00 | - | - | - | - | - |
| FLORIDA, EAST COAST | 2.00 | 4.00 | - | - | 1.00 | - |
| FLORIDA, WEST COAST | 2.08 | 4.00 | - | - | 1.00 | - |
| ALABAMA | 2.10 | - | - | - | - | - |
| MISSISSIPPI | 2.18 | 3.43 | - | - | - | - |
| LOUISIANA | 2.00 | 3.00 | - | - | - | - |
| TEXAS | 1.71 | 3.00 | - | - | - | - |

SECTION 14 - GLOSSARY

In order to prevent misunderstanding in the use of common names employed in the tables and discussions, the following list of common and scientific names is given for fish, shellfish, and other aquatic products taken by United States fishermen.

| Common names as shown in Bureau reports | Other common names | Scientific names |
|--|--|--|
| FISH | | |
| Alewives | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Branch herring, big-eyed herring, river herring..... </div> </div> | <i>Alosa pseudoharengus</i> |
| Amberjack | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Blueback, glut herring, shad herring </div> </div> | <i>Alosa aestivalis</i> |
| Anchovies | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Jack..... </div> </div> | <i>Seriola</i> species |
| Angelfish | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Goosefish, allmouth, headfish, monkfish, bellyfish </div> </div> | <i>Engraulis mordax</i> (Pacific) |
| Anglerfish | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Tailor, skipjack </div> </div> | <i>Pomacanthus</i> species |
| Ballyhoo..... | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Pike perch, hard pike, blue pickereel (Canada) </div> </div> | <i>Angelichthys</i> species |
| Barracuda..... | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Runner, hardtail, crevalle </div> </div> | <i>Lophius americanus</i> |
| Bluefish | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Balao..... </div> </div> | <i>Hemiramphus brasiliensis</i> |
| Blue pike | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Fresh-water dogfish, grindle..... </div> </div> | <i>Sphyræna</i> species |
| Blue runner..... | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Lawyer, ling </div> </div> | <i>Pomatopus saltatrix</i> |
| Bonito..... | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Marbled sculpin </div> </div> | <i>Stizostedion vitreum glaucum</i> |
| Bowfin | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Longjaw, bluefin, blackfin (United States), tullibee (Canada) </div> </div> | <i>Caranx crysos</i> |
| Brown trout..... | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Scad..... </div> </div> | <i>Sarda sarda</i> (Atlantic) |
| Buffalofish | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Herring (Canada) </div> </div> | <i>Sarda chiliensis</i> (Pacific) |
| Burbot | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> White crappie, calico bass </div> </div> | <i>Amia calva</i> |
| Butterfish | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Black crappie </div> </div> | <i>Salmotrutta</i> |
| Cabezone..... | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Common jack, jackfish </div> </div> | <i>Ictiobus</i> species |
| Cabio | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Crocus, hardhead </div> </div> | <i>Lota lota</i> |
| Cabrilla | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Choigset, blue perch, bergall..... </div> </div> | <i>Poronotus triacanthus</i> |
| Carp | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Silver eel </div> </div> | <i>Scorpaenichthys marmoratus</i> |
| Catfish and bullheads .. | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Salmon trout, bull trout..... </div> </div> | <i>Rachycentron canadus</i> |
| Chubs..... | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Oyster cracker, oyster drum, sea drum.... </div> </div> | <i>Epinephelus analogus</i> (Pacific) |
| Cigarfish | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Channel bass, redfish, spotted bass </div> </div> | <i>Cyprinus carpio</i> |
| Cisco | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Channel bass, redfish, spotted bass </div> </div> | <i>Ictalurus</i> species |
| Cod..... | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Channel bass, redfish, spotted bass </div> </div> | <i>Pylodictis olivaris</i> |
| Cod | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Channel bass, redfish, spotted bass </div> </div> | All <i>Leucichthys</i> except <i>artedi</i> (Great Lakes) |
| Crappie | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Channel bass, redfish, spotted bass </div> </div> | <i>Decapterus punctatus</i> |
| Crevalle..... | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Channel bass, redfish, spotted bass </div> </div> | <i>Leucichthys artedi</i> (Lake Erie only) |
| Croaker | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Channel bass, redfish, spotted bass </div> </div> | <i>Gadus morhua</i> (Atlantic) |
| Cunner | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Channel bass, redfish, spotted bass </div> </div> | <i>Gadus macrocephalus</i> (Pacific) |
| Cutlassfish..... | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Channel bass, redfish, spotted bass </div> </div> | <i>Pomoxis annularis</i> |
| Cusk | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Channel bass, redfish, spotted bass </div> </div> | <i>Pomoxis nigromaculatus</i> |
| Dolly Varden trout..... | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Channel bass, redfish, spotted bass </div> </div> | <i>Caranx hippos</i> |
| Dolphin | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Channel bass, redfish, spotted bass </div> </div> | <i>Micropogon undulatus</i> |
| Drum: | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Channel bass, redfish, spotted bass </div> </div> | <i>Tautoglabrus adspersus</i> |
| Black | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Channel bass, redfish, spotted bass </div> </div> | <i>Trichurus lepturus</i> |
| Red | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Channel bass, redfish, spotted bass </div> </div> | <i>Brosme brosme</i> |
| | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Channel bass, redfish, spotted bass </div> </div> | <i>Salvelinus malma</i> |
| | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Channel bass, redfish, spotted bass </div> </div> | <i>Corphaena hippurus</i> |
| | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Channel bass, redfish, spotted bass </div> </div> | <i>Pogonias cromis</i> |
| | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">}</div> <div> Channel bass, redfish, spotted bass </div> </div> | <i>Sciaenops ocellata</i> |

(Continued on next page)

GLOSSARY

| Common names as shown in Bureau reports | Other common names | Scientific names |
|--|---|--|
| FISH - Continued | | |
| Eel: | | |
| Common ..... | ..... | <i>Anguilla rostrata</i> |
| Conger ..... | ..... | <i>Conger oceanicus</i> |
| Flounders: | | |
| Atlantic and Gulf Coasts: | | |
| Gray sole ..... | ..... | <i>Glyptocephalus cynoglossus</i> |
| Lemon sole | (weighing over 3-1/2 pounds each) | |
| Blackback | } Winter flounder (weighing under 3-1/2 pounds each) | } <i>Pseudopleuronectes americanus</i> |
| Yellowtail | Dab | <i>Limanda ferruginea</i> |
| Dab | Sea dab | <i>Hippoglossoides platessoides</i> |
| Fluke | Summer flounder, gulf flounder, flounder.. | <i>Paralichthys</i> species |
| Pacific Coast: | | |
| Arrowtooth halibut ..... | ..... | <i>Atheresthes stomias</i> |
| California halibut ..... | ..... | <i>Paralichthys californicus</i> |
| Sand dabs ..... | ..... | <i>Citharichthys sordidus</i> |
| "Sole": | | |
| Dover ..... | ..... | <i>Microstomus pacificus</i> |
| English ..... | ..... | <i>Parophrys vetulus</i> |
| Petrale ..... | ..... | <i>Eopsetta jordani</i> |
| Rex ..... | ..... | <i>Glyptocephalus zachirus</i> |
| Sand ..... | ..... | <i>Psettichthys melanostictus</i> |
| Unclassified ..... | ..... | Pleuronectidae and Bothidae |
| Flying fish: | | |
| Garfish | Gar, sea gar | <i>Lepisosteus</i> species |
| Gizzard shad | Nanny shad, mud shad, winter shad | <i>Dorosoma cepedianum</i> |
| Goldfish | Sand perch, gold perch | <i>Carassius auratus</i> |
| Groupers | "Sea bass" | } <i>Epinephelus</i> species |
| Grunts | Margate fish, sailors' choice | } <i>Mycteropora</i> species |
| Haddock ..... | ..... | <i>Haemulon</i> species |
| Hake: | | |
| Red | Squirrel hake, ling, black hake, mud hake | <i>Urophycis chuss</i> (Atlantic) |
| White | Hake | <i>Urophycis tenuis</i> (Atlantic) |
| Pacific | Merluccio | <i>Merluccius productus</i> (Pacific) |
| Halfmoon | Rudder fish | <i>Medialuna californiensis</i> |
| Halibut ..... | ..... | } <i>Hippoglossus hippoglossus</i> (Atlantic) |
| Hardhead | Sacramento rockfish | } <i>Hippoglossus stenolepis</i> (Pacific) |
| Harvestfish | } Starfish, dollarfish, pappyfish, butterfish (N.C.) | } <i>Orthodon microlepidotus</i> (Pacific) |
| Herring: | | |
| Lake | Herring | } <i>Leucichthys artedi</i> (Great Lakes except Erie) |
| Sea ..... | ..... | } <i>Clupea harengus</i> (Atlantic) |
| Thread ..... | ..... | } <i>Clupea pallasii</i> (Pacific) |
| ..... | ..... | <i>Opisthonema oglinum</i> |

(Continued on next page)

GLOSSARY

| Common names as shown in Bureau reports | Other common names | Scientific names |
|--|---|--|
| FISH - Continued | | |
| Hickory shad | Tailor shad, skip, autumnal herring..... | <i>Alosa mediocris</i> |
| Hogchoker..... | ..... | <i>Trinectes maculatus</i> |
| Hogfish | Capitaine, perro perro | <i>Lachnolaimus maximus</i> |
| Jack mackerel | Horse mackerel..... | <i>Trachurus symmetricus</i> |
| Jewfish ..... | ..... | <i>Promicrops itaiara</i> |
| King croaker..... | Kingfish, white croaker..... | <i>Genyonemus lineatus</i> |
| King mackerel | Cero, kingfish | { <i>Scomberomorus cavalla</i> |
| King whiting or "kingfish". | Whiting, sea mink, ground mullet..... | <i>Scomberomorus regalis</i> |
| Lake trout..... | ..... | <i>Menticirrhus</i> species |
| Lamprey ..... | ..... | <i>Salvelinus namaycush</i> |
| Launce | Sand eel, lant, sand launce | { <i>Petromyzon marinus</i> (Atlantic) |
| Lingcod | Cultus cod, blue cod, buffalo cod, ling | <i>Lampetra tridentatus</i> (Pacific) |
| Boston mackerel..... | ..... | <i>Ammodytes americanus</i> |
| Pacific mackerel..... | Mossbunker, pogy, fatback | <i>Ophiodon elongatus</i> |
| Menhaden ..... | ..... | <i>Scomber scombrus</i> (Atlantic) |
| Minnows | Sand perch, sand bream..... | <i>Scomber japonicus</i> |
| Mojarra | Goldeye, toothed herring..... | <i>Brevoortia</i> species |
| Mooneye | Jumping mullet, striped mullet, silver mullet | Cyprinidae |
| Mullet | Mutton snapper..... | Gerridae |
| Muttonfish ..... | ..... | <i>Mugil</i> species |
| Ocean perch: | Rosefish, redfish, red perch..... | <i>Lutjanus analis</i> |
| Atlantic ..... | ..... | <i>Sebastes marinus</i> |
| Pacific | Eelpout, sea pout | <i>Sebastes alutus</i> |
| Ocean pout..... | ..... | <i>Macrozoarces americanus</i> |
| Opaleye..... | Spoonbill cat..... | <i>Girella nigricans</i> |
| Paddlefish | Surffish..... | <i>Polyodon spathula</i> |
| Perch ..... | ..... | Embiotocidae (Pacific) |
| Permit | Hogfish (N.C.)..... | <i>Trachinotus goodei</i> |
| Pigfish | Great Lakes pike | <i>Orthopristis chrysopterus</i> |
| Pike or pickerel | Bream, salt-water bream | <i>Esox</i> species |
| Pinfish..... | Boston bluefish..... | <i>Lagodon rhomboides</i> |
| Pollock ..... | ..... | <i>Pollachius virens</i> (Atlantic) |
| Pompano | Spearfish or skimpfish..... | { <i>Trachinotus</i> species (Atlantic) |
| Quillback ..... | ..... | { <i>Palometa simillima</i> (Pacific) |
| Ratfish..... | Redeye, goggle-eye, groupers, sand bass ... | <i>Carpoides</i> species |
| Rock bass | Rock cod, snapper | <i>Hydrolagus colliei</i> |
| Rockfishes | Black cod | { <i>Ambloplites rupestris</i> (fresh-water) |
| Sablefish..... | ..... | <i>Paralabrax nebulifer</i> (Pacific) |
| Salmon: | ..... | <i>Sebastes</i> species (Pacific) |
| Atlantic ..... | ..... | <i>Anoplopoma fimbria</i> |
| Pacific: | Tyee, spring | <i>Salmo salar</i> (Atlantic) |
| Chinook or king..... | Fall, dog | <i>Oncorhynchus tshawytscha</i> |
| Chum or keta..... | Humpback | <i>Oncorhynchus keta</i> |
| Pink | Blueback | <i>Oncorhynchus gorbusha</i> |
| Red or sockeye..... | ..... | <i>Oncorhynchus nerka</i> |
| Silver or coho..... | ..... | <i>Oncorhynchus kisutch</i> |

(Continued on next page)

GLOSSARY

| Common names as shown in Bureau reports | Other common names | Scientific names |
|--|---------------------------------------|---|
| FISH - Continued | | |
| Sand perch | Yellowtail, silver perch | <i>Bairdiella chrysura</i> |
| Sardine (Pacific)..... | Pilchard | <i>Sardinops caerulea</i> (Pacific) |
| Sauger | Sand pike | <i>Stizostedion canadense</i> |
| Saury | Mackerel-pike..... | <i>Cololabis saira</i> |
| Sawfish | Scorpionfish..... | <i>Pristis pectinatus</i> |
| Sculpin | Porgee, paugy, fair maid..... | <i>Myoxocephalus</i> species |
| Scup or porgy..... | | <i>Calamus</i> and <i>Stenotomus</i> species |
| Sea bass: | | |
| Black | { Black jewfish (Pacific)..... | <i>Stereolepis gigas</i> |
| | { Blackfish (Atlantic)..... | <i>Centropristes striatus</i> |
| White | | <i>Cynoscion nobilis</i> (Pacific) |
| Sea catfish..... | Gafftopsail | <i>Bagre marinus</i> |
| Sea robin | | <i>Prionotus</i> species |
| Sea trout or weakfish: | | |
| Gray | Gray trout, squeteague | <i>Cynoscion regalis</i> |
| Spotted | Spotted trout, speckled trout..... | <i>Cynoscion nebulosus</i> |
| White | White trout, sand trout..... | <i>Cynoscion arenarius</i> |
| Shad..... | American shad, white shad | <i>Alosa sapidissima</i> |
| Sharks: | | |
| Grayfish | Dogfish, spiny and smooth dog..... | <i>Squalus</i> and <i>Mustelus</i> species |
| Soupfin | | <i>Galeorhinus zyopterus</i> |
| Other | | { <i>Carcharodon</i> , <i>Carcharias</i> , <i>Sphryna</i> , <i>Prionace</i> and <i>Lamna</i> species |
| Sheepshead: | | |
| Fresh-water | Fresh-water drum, gaspergou, gou..... | <i>Aplodinotus grunniens</i> |
| Salt-water | | <i>Archosargus</i> species (Atlantic) |
| Sierra..... | California redfish, fathead..... | <i>Pimelometopon pulcher</i> (Pacific) |
| Silversides | | <i>Scomberomorus sierra</i> (Pacific) |
| Skates..... | Spearing | <i>Menidia</i> species |
| | Ray, rajafish | <i>Raja</i> species |
| Smelt..... | { | { <i>Osmerus mordax</i> (Atlantic and Great Lakes), <i>Atherinidae</i> and <i>Osmeridae</i> (Pacific) |
| | Eulachon..... | <i>Thaleichthys pacificus</i> |
| Snapper: | | |
| Mangrove | Gray snapper | <i>Lutjanus griseus</i> |
| Red | | <i>Lutjanus blackfordii</i> |
| Vermilion | | <i>Rhomboplites</i> species |
| White | | <i>Lutjanus griseus</i> |
| Yellowtail | | <i>Ocyurus chrysurus</i> |
| Snook | Robalo, sergeantfish, pike..... | <i>Centropomus undecimalis</i> |
| Spadefish | Angelfish | <i>Chaetodipterus faber</i> |
| Spanish mackerel..... | Mackerel | <i>Scomberomorus maculatus</i> |
| Spanish sardine..... | | <i>Sardinella anchovia</i> |
| Splittail | | <i>Pogonichthys macrolepidotus</i> |
| Spot | Lafayette, goody | <i>Leiostomus xanthurus</i> |
| Steelhead trout..... | Salmon trout..... | <i>Salmo gairdneri</i> |

(Continued on next page)

GLOSSARY

| Common names as shown in Bureau reports | Other common names | Scientific names |
|--|--|--|
| FISH - Continued | | |
| Striped bass..... | Rockfish, rock..... | <i>Roccus saxatilis</i> |
| Sturgeon: | | |
| Common..... | ..... | <i>Acipenser</i> species |
| Shovelnose..... | ..... | <i>Scaphirhynchus platyrhynchus</i> |
| Suckers..... | Fresh-water mullet, redbfin, bayfish..... | <i>Catostomus</i> species |
| Sunfish..... | Bream, perch, bluegill..... | <i>Lepomis</i> species |
| Swellfish..... | Puffer, swell toad, globefish, blowfish.... | <i>Sphaeroides maculatus</i> |
| Swordfish..... | ..... | <i>Xiphias gladius</i> |
| Tautog..... | Blackfish, oysterfish..... | <i>Tautoga onitis</i> |
| Tenpounder..... | Big-eyed herring, ladyfish..... | <i>Elops saurus</i> |
| Thimble-eyed mackerel. | Chub mackerel, bullseye mackerel..... | <i>Pneumatophorus colias</i> |
| Tilefish..... | ..... | <i>Lopholatilus chamaeleonticeps</i> |
| Tomcod..... | Frost fish..... | <i>Microgadus tomcod</i> (Atlantic) |
| Triggerfish..... | ..... | <i>Microgadus proximus</i> (Pacific) |
| Tripletail..... | Sunfish (N.C.), blackfish..... | <i>Balistes</i> species |
| Tullibee..... | (See chubs)..... | <i>Lobotes surinamensis</i> |
| Tuna: | | |
| Albacore..... | Longfin tuna..... | <i>Thunnus alalunga</i> |
| Bluefin..... | Horse mackerel..... | <i>Thunnus thynnus</i> |
| Little..... | Bonito, albacore, false albacore..... | <i>Euthynnus alletteratus</i> |
| Skipjack..... | Striped tuna..... | <i>Katsuwonus pelamis</i> |
| Yellowfin..... | ..... | <i>Thunnus albacares</i> |
| Turbot..... | ..... | <i>Pleuronectidae</i> (Pacific) |
| Wahoo..... | ..... | <i>Acanthocybium solandri</i> |
| Warsaw..... | Black Jewfish..... | <i>Garrupa nigrita</i> |
| Whitebait..... | Silversides..... | <i>Menidia beryllina</i> (Atlantic) |
| White bass..... | White lake bass..... | Small fry of several species (Pacific) |
| Whitefish: | | <i>Roccus chrysops</i> |
| Common..... | ..... | <i>Coregonus clupeaformis</i> |
| Menominee..... | ..... | <i>Prosopium quadrilaterale</i> |
| White perch..... | ..... | <i>Morone americana</i> |
| Whiting..... | Silver hake..... | <i>Merluccius bilinearis</i> |
| Wolffish..... | Ocean catfish (New England)..... | <i>Anarhichas lupus</i> |
| Yellow bass..... | Bar fish..... | <i>Roccus mississippiensis</i> |
| Yellow perch..... | Ringed perch, perch..... | <i>Perca flavescens</i> |
| Yellow pike..... | Wall-eyed pike, pike perch, dore (Canadian). | <i>Stizostedion vitreum vitreum</i> |
| Yellowtail..... | (For Atlantic, see snapper, yellowtail)..... | <i>Seriola dorsalis</i> (Pacific) |
| CRUSTACEANS | | |
| Crabs: | | |
| Blue: | | |
| Hard..... | Hard-shell crab..... | } <i>Callinectes sapidus</i> |
| Soft and peeler..... | Soft-shell crab..... | |
| Dungeness..... | ..... | <i>Cancer magister</i> |
| King..... | Alaska king crab..... | <i>Paralithodes camtschatica</i> |

(Continued on next page)

GLOSSARY

| Common names as shown in Bureau reports | Other common names | Scientific names | |
|--|---|--|--|
| CRUSTACEANS - Continued | | | |
| Crabs: - Continued | | | |
| Rock..... | ..... | { <i>Cancer irroratus</i> (New England) <i>Cancer</i> species (California) <i>Menippe mercenaria</i> | |
| Stone ..... | ..... |  |  |
| Crawfish: | | | |
| Fresh-water | Crayfish..... | { <i>Cambarus</i> species (Atlantic) <i>Astacus</i> species (Pacific) | |
| Salt-water | (See lobsters, spiny)..... | | |
| Horseshoe crab..... | King crab..... | <i>Limulus</i> species | |
| Lobsters: | | | |
| Northern ..... | ..... | <i>Homarus americanus</i> (Atlantic) | |
| Spiny | Sea crawfish, rock lobster | { <i>Panulirus argus</i> (Atlantic) <i>Panulirus interruptus</i> (Pacific) | |
| | | | |
| Shrimp..... | Prawn..... | { <i>Penaeus</i> , <i>Pandalus</i> , and <i>Xiphopenaeus</i> (Atlantic), <i>Pandalus</i> , <i>Pandalopsis</i> , and <i>Crangon</i> species (Pacific) | |
| MOLLUSKS | | | |
| Abalone..... | ..... | <i>Haliotis</i> species | |
| Clams: | | | |
| Cockle..... | ..... | <i>Cardium corbis</i> (Pacific) | |
| Hard..... | { Butter | <i>Saxidomus nuttalli</i> (Pacific) | |
| | | Little neck | <i>Protothaca staminea</i> (Pacific) |
| | | Round clam, cherrystone, quahog, little neck | <i>Venus mercenaria</i> , <i>Mercenaria mercenaria</i> |
| Ocean quahog ..... | ..... | <i>Arctica islandica</i> | |
| Razor ..... | ..... | { <i>Ensis</i> species (Atlantic) <i>Siliqua patula</i> (Pacific) | |
| Soft | Soft-shell clam, sand clam, nannynose, maninose | | |
| Surf | Skimmer..... | <i>Mya arenaria</i> | |
| Conchs: | | | |
| Mussels: | | | |
| Sea..... | ..... | { <i>Spisula solidissima</i> <i>Strombus</i> species | |
| Fresh-water: | ..... |  |  |
| Mussel shells..... | ..... | <i>Busycon</i> species | |
| Pearls and slugs.... | ..... | { <i>Mytilus californianus</i> (Pacific) | |
| Octopus | Devilfish..... | <i>Mytilus edulis</i> (Atlantic) | |
| Oysters: | | | |
| Eastern..... | Cove..... | <i>Unionidae</i> | |
| Pacific | Japanese..... | <i>Crassostrea virginica</i> | |
| Western | Olympia, native..... | <i>Crassostrea gigas</i> | |
| Periwinkles or cockles ..... | ..... | <i>Ostrèa lurida</i> | |
| Scallops: | | | |
| Bay ..... | ..... | { <i>Littorina</i> species { <i>Pecten</i> species (Atlantic) <i>Pecten caurinus</i> (Pacific) | |
| Sea | | | <i>Placopecten magellanicus</i> |

(Continued on next page)

GLOSSARY

| Common names as shown in Bureau reports | Other Common names | Scientific names |
|--|------------------------------------|---|
| MOLLUSKS - Continued | | |
| Squid | Inkfish, bone squid, taw taw | { <i>Loligo opalescens</i> (Pacific) <i>Loligo pealii</i> (Atlantic) |
| OTHER | | |
| Sea urchins | Sea eggs | <i>Strongylocentrotus drobachiensis</i> |
| Terrapin | Diamond-back terrapin | <i>Malaclemys</i> species |
| Turtles: | | |
| Baby ..... | ..... | (Young of fresh-water species) |
| Green ..... | ..... | <i>Chelonia mydas</i> |
| Loggerhead ..... | ..... | <i>Caretta</i> species |
| Sliders ..... | ..... | <i>Pseudemys</i> species |
| Snapper | Hard-shell, alligator turtle | { <i>Chelydra serpentina</i> <i>Macrochelys temnickii</i> |
| Soft-shell ..... | ..... | <i>Amyda</i> species |
| Frogs ..... | ..... | <i>Rana</i> species |
| Irish moss ..... | ..... | <i>Chondrus crispus</i> |
| Kelp ..... | ..... | <i>Macrocystis</i> species |
| Sponges: | | |
| Glove ..... | ..... | <i>Hippiospongia conalculata</i> |
| Grass ..... | ..... | <i>Spongia graminea</i> |
| Sheepswool | Wool | <i>Hippiospongia lachne</i> |
| Yellow ..... | ..... | <i>Spongia barbara</i> |
| Whales: | | |
| Blue ..... | ..... | <i>Balaenoptera musculus</i> |
| Bottlenose ..... | ..... | <i>Berardius bairdi</i> |
| Fin ..... | ..... | <i>Balaenoptera physalus</i> |
| Humpback ..... | ..... | <i>Megaptera</i> species |
| Sei ..... | ..... | <i>Balaenoptera borealis</i> |
| Sperm ..... | ..... | <i>Physeter catodon</i> |
| Bloodworms ..... | ..... | Glyceridae |
| Sandworms ..... | ..... | <i>Nereis</i> species |



SECTION 15 - PICTORIAL SECTION

As many of the readers of this publication may not be familiar with all of the species of fish and shellfish, etc., taken commercially in the United States, illustrations of many of the various species are included in the following pages. The descriptive material appearing with each species includes the areas in which commercial landings are made in the United States and does not constitute the extreme limits in which they occur. Similarly, the gear listed for each species do not represent the only types of apparatus by which these species are obtained, but represent those types which are normally used in their capture. The gear do not necessarily appear in the order of their importance. Illustrations of species landed in Hawaii are not included in this section.

For more detailed information on the nomenclature of the fishery products listed below, the reader is referred to Section 14 of this publication entitled, "Glossary."



ALEWIFE
 RANGE - FLORIDA TO NEW ENGLAND
 GEAR - POUND NETS, GILL NETS, WEIRS,
 DIP NETS, HAUL SEINES, FLOATING TRAPS,
 FYKE NETS



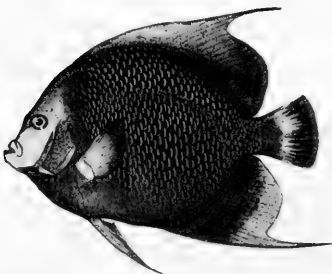
ANGLERFISH
 RANGE - NEW JERSEY TO MASSACHUSETTS
 GEAR - OTTER TRAWLS, POUND NETS



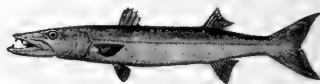
AMBERJACK
 RANGE - FLORIDA
 GEAR - HANDLINES, TROLL LINES



ANCHOVY
 RANGE - CALIFORNIA TO WASHINGTON
 GEAR - PURSE SEINES AND HAUL SEINES



ANGELFISH
 RANGE - FLORIDA
 GEAR - HAUL SEINES



BARRACUDA (ATLANTIC)
 RANGE - FLORIDA
 GEAR - TROLL LINES, HANDLINES



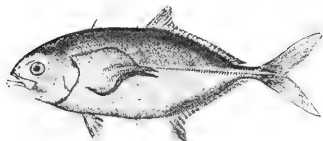
BARRACUDA (PACIFIC)
 RANGE - CALIFORNIA
 GEAR - PURSE SEINES, LONGLINES, HANDLINES,
 TROLL LINES, GILL AND TRAMMEL NETS



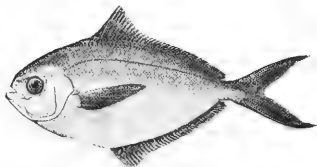
BLUEFISH
 RANGE - GULF OF MEXICO TO NEW ENGLAND
 GEAR - HAUL SEINES, GILL NETS, POUND NETS,
 TROLL LINES, PURSE SEINES



BURBOT
 RANGE - GREAT LAKES
 GEAR - GILL NETS, FYKE NETS, POUND
 NETS, TRAP NETS



BLUE RUNNER OR HARDTAIL
 RANGE - GULF OF MEXICO
 GEAR - HAUL SEINES, GILL NETS, POTS



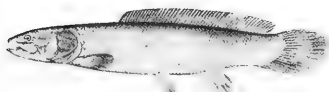
BUTTERFISH
 RANGE - FLORIDA TO NEW ENGLAND
 GEAR - POUND NETS, HAUL SEINES, OTTER TRAWLS



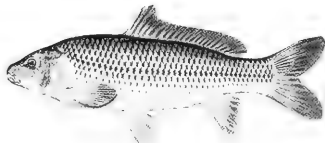
BONITO (ATLANTIC)
 RANGE - NORTH CAROLINA TO MASSACHUSETTS
 GEAR - POUND NETS, TROLL LINES, GILL NETS



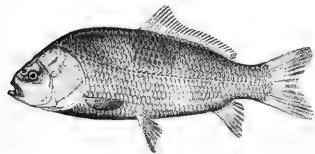
CABIO
 RANGE - FLORIDA TO VIRGINIA
 GEAR - HANDLINES, POUND NETS



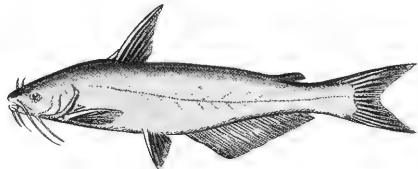
BOWFIN
 RANGE - FRESH-WATER
 GEAR - HAUL SEINES, TRAP NETS, FYKE NETS



CARP
 RANGE - FRESH-WATER
 GEAR - HAUL SEINES, GILL NETS, TRAP NETS,
 FYKE NETS, POUND NETS, TROT LINES



BUFFALO FISH
 RANGE - FRESH-WATER
 GEAR - HAUL SEINES, FYKE NETS, TRAMMEL
 NETS, TROT LINES



CATFISH
 RANGE - FRESH-WATER
 GEAR - HAUL SEINES, TROT LINES, POUND
 NETS, POTS, FYKE NETS

PICTORIAL SECTION



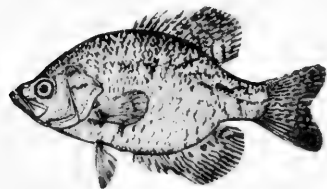
CHUB
RANGE - GREAT LAKES
GEAR - GILL NETS



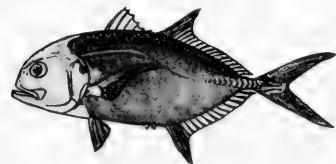
CIGARFISH
RANGE - FLORIDA
GEAR - HAUL SEINES



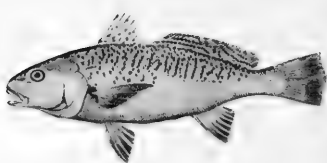
COD
RANGE - VIRGINIA TO MAINE, WASHINGTON,
AND ALASKA
GEAR - OTTER TRAWLS, LONGLINES, GILL NETS



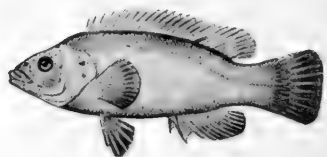
CRAPPIE
RANGE - FRESH-WATER LAKES
GEAR - HAUL SEINES, LINES, POTS



CREVALLE
RANGE - SOUTH ATLANTIC AND GULF STATES
GEAR - HAUL SEINES, GILL NETS, LINES



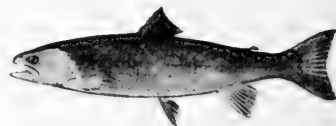
CROAKER
RANGE - GULF OF MEXICO TO NEW YORK
GEAR - POUND NETS, OTTER TRAWLS, HAUL SEINES,
GILL NETS



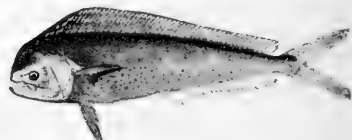
CUNNER
RANGE - NEW ENGLAND
GEAR - OTTER TRAWLS, HANDLINES



CUSK
RANGE - NEW ENGLAND
GEAR - OTTER TRAWLS, LONGLINES

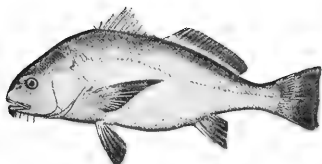


DOLLY VARDEN TROUT
RANGE - PACIFIC
GEAR - POUND NETS, GILL NETS, LINES

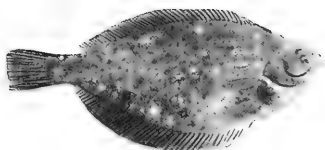


DOLPHIN
RANGE - FLORIDA TO NORTH CAROLINA
GEAR - TROLL LINES

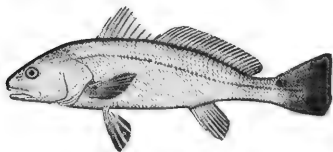
PICTORIAL SECTION



DRUM, BLACK
RANGE - TEXAS TO NORTH CAROLINA
GEAR - HAUL SEINES, POUND NETS, LINES



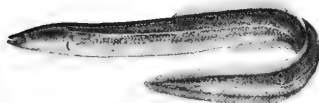
LEMON SOLE
RANGE - NEW YORK TO MAINE
GEAR - OTTER TRAWLS



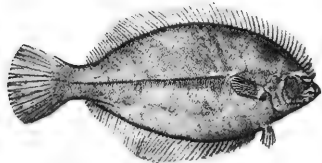
DRUM, RED
RANGE - TEXAS - MARYLAND
GEAR - POUND NETS, HAUL SEINES, GILL NETS,
LINES



DAB
RANGE - MASSACHUSETTS TO NOVA SCOTIA
GEAR - OTTER TRAWLS, LONGLINES



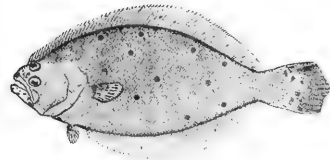
EEL, COMMON
RANGE - FLORIDA TO NEW ENGLAND AND IN
MISSISSIPPI RIVER, LAKE ONTARIO
GEAR - POTS, SPEARS, POUND NETS



BLACKBACK OR WINTER FLOUNDER
RANGE - NORTH CAROLINA TO MAINE
GEAR - OTTER TRAWLS, POUND NETS, FYKE NETS,
SPEARS, LINES



EEL, CONGER
RANGE - FLORIDA TO NEW ENGLAND
GEAR - OTTER TRAWLS



FLUKE
RANGE - TEXAS TO MASSACHUSETTS
GEAR - OTTER TRAWL, SPEARS, LINES



GRAY SOLE
RANGE - MASSACHUSETTS TO MAINE
GEAR - OTTER TRAWLS



FLYING FISH
RANGE - PACIFIC AND ATLANTIC OCEANS
GEAR - GILL NETS

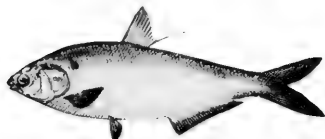
PICTORIAL SECTION



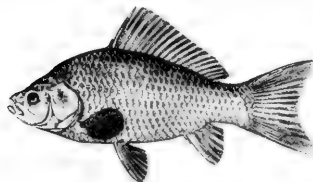
FRIGATE MACKEREL
RANGE - MIDDLE ATLANTIC
GEAR - POUND NETS



GARFISH
RANGE - FRESH-WATER
GEAR - HAUL SEINES, LINES



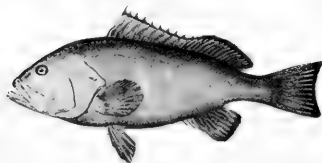
GIZZARD SHAD
RANGE - NORTH CAROLINA TO MARYLAND,
GREAT LAKES
GEAR - HAUL SEINES, POUND NETS, GILL NETS



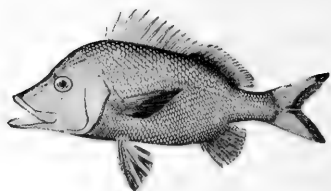
GOLDFISH
RANGE - LAKES AND RIVERS
GEAR - HAUL SEINES, TRAP NETS, FYKE NETS



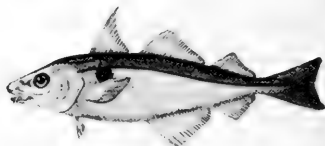
GRAYFISH
RANGE - PACIFIC
GEAR - LONGLINES, OTTER TRAWLS, GILL NETS



GROUPE
RANGE - TEXAS TO SOUTH CAROLINA
GEAR - HANDLINES, POTS



GRUNT
RANGE - FLORIDA
GEAR - POTS, GILL NETS, LINES



HADDOCK
RANGE - NEW ENGLAND STATES
GEAR - OTTER TRAWLS, GILL NETS, LONGLINES



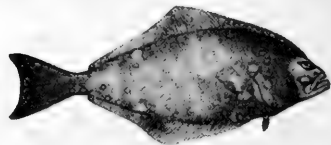
HAKE, RED
RANGE - CHESAPEAKE BAY TO NEW ENGLAND
GEAR - GILL NETS, OTTER TRAWLS, LONGLINES



HAKE, WHITE
RANGE - CHESAPEAKE BAY TO NEW ENGLAND
GEAR - GILL NETS, OTTER TRAWLS, LONGLINES

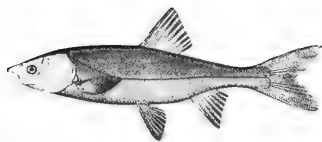


HAKE (PACIFIC)
RANGE - PACIFIC
GEAR - OTTER TRAWLS

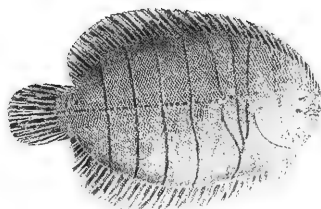


HALIBUT
RANGE - PACIFIC COAST - NEW ENGLAND
GEAR - LONGLINES, OTTER TRAWLS

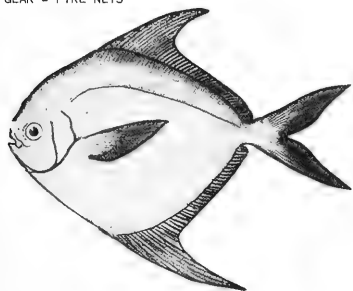
PICTORIAL SECTION



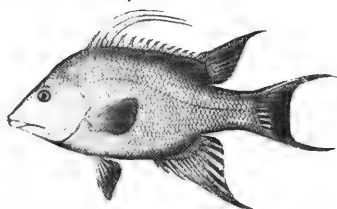
HARDHEAD
RANGE - CALIFORNIA
GEAR - FYKE NETS



HOGCHOKER
RANGE - CHESAPEAKE BAY
GEAR - POUND NETS, HAUL SEINES



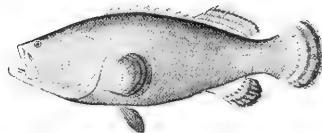
HARVESTFISH OR "STARFISH"
RANGE - NORTH CAROLINA TO CHESAPEAKE BAY
GEAR - HAUL SEINES, POUND NETS



HOGFISH
RANGE - FLORIDA
GEAR - LINES



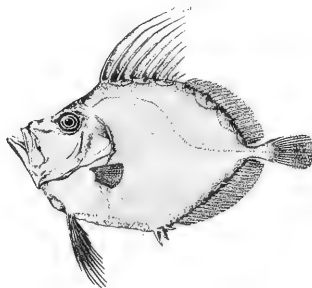
HERRING, LAKE
RANGE - GREAT LAKES
GEAR - GILL NETS, HAUL SEINES, POUND NETS,
TRAP NETS



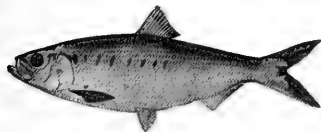
JEWFISH
RANGE - FLORIDA
GEAR - HANDLINES



HERRING, SEA
RANGE - NEW JERSEY TO NEW ENGLAND, PACIFIC
COAST STATES AND ALASKA
GEAR - PURSE SEINES, WEIRS, FLOATING TRAPS,
STOP SEINES



JOHN DORY
RANGE - MIDDLE ATLANTIC STATES
GEAR - OTTER TRAWLS



HICKORY SHAD
RANGE - FLORIDA TO RHODE ISLAND
GEAR - POUND NETS, HAUL SEINES, GILL NETS
FLOATING TRAPS

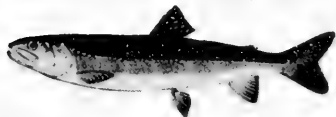
PICTORIAL SECTION



KING MACKEREL
 RANGE - TEXAS TO NEW YORK
 GEAR - TROLL LINES, GILL NETS, HANDLINES



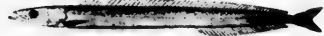
KING WHITING
 RANGE - TEXAS TO MASSACHUSETTS
 GEAR - OTTER TRAWLS, HAUL SEINES, POUND NETS



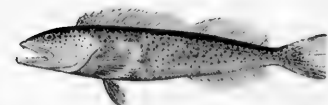
LAKE TROUT
 RANGE - GREAT LAKES
 GEAR - GILL NETS, LINES, POUND NETS (TRAP NETS)



LAMPREY
 RANGE - FRESH-WATER
 GEAR - POTS, FYKE NETS



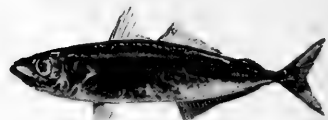
LAUNCE
 RANGE - NEW ENGLAND
 GEAR - HAUL SEINES



LINGCOD
 RANGE - CALIFORNIA TO ALASKA
 GEAR - OTTER TRAWLS, LONGLINES, HANDLINES



MACKEREL, ATLANTIC
 RANGE - CHESAPEAKE BAY TO MAINE
 GEAR - PURSE SEINES, GILL NETS, POUND NETS,
 FLOATING TRAPS



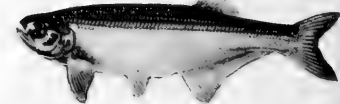
MACKEREL, JACK
 RANGE - CALIFORNIA
 GEAR - LINES, SEINES, LAMPARA NETS



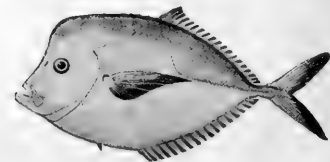
MACKEREL, PACIFIC
 RANGE - CALIFORNIA
 GEAR - LINES, SEINES, LAMPARA NETS



MENHADEN
 RANGE - GULF OF MEXICO TO NEW ENGLAND
 GEAR - PURSE SEINES, POUND NETS

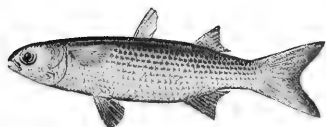


MOONEYE
 RANGE - GREAT LAKES
 GEAR - HAUL SEINES



MOONFISH
 RANGE - FLORIDA
 GEAR - HANDLINES, HAUL SEINES

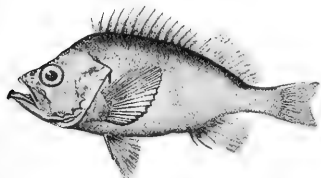
PICTORIAL SECTION



MULLET
RANGE - TEXAS TO NEW JERSEY
GEAR - GILL NETS, HAUL SEINES, POUND NETS,
CAST NETS



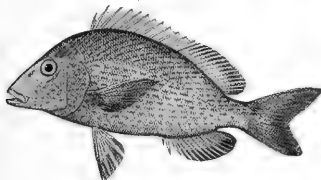
OCEAN POUT
RANGE - NEW ENGLAND
GEAR - OTTER TRAWLS



OCEAN PERCH
RANGE - NEW ENGLAND
GEAR - OTTER TRAWLS



PADDELFISH
RANGE - GULF OF MEXICO, MISSISSIPPI RIVER
GEAR - HAUL SEINES, TROT LINES



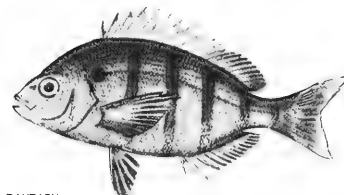
PIGFISH
RANGE - FLORIDA
GEAR - POTS, HANDLINES, GILL NETS



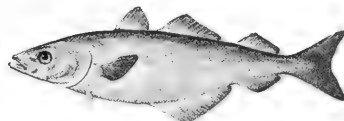
PIKE OR PICKEREL
RANGE - FRESH-WATER
GEAR - TRAP NETS, FYKE NETS, GILL NETS,
POUND NETS, HANDLINES



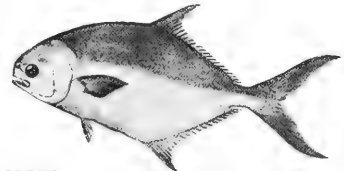
SARDINE, PACIFIC (PILCHARD)
RANGE - CALIFORNIA TO WASHINGTON
GEAR - PURSE SEINES, LAMPARA AND RING NETS,
GILL NETS



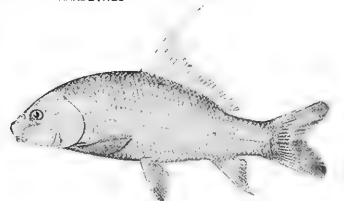
PINFISH
RANGE - FLORIDA TO NORTH CAROLINA
GEAR - HAUL SEINES, GILL NETS



POLLOCK
RANGE - MIDDLE ATLANTIC AND NEW ENGLAND STATES
GEAR - LONG LINES, FLOATING TRAPS, POUND NETS,
OTTER TRAWLS, GILL NETS



POMPANO
RANGE - TEXAS TO NORTH CAROLINA
GEAR - TRAMMEL NETS, HAUL SEINES, GILL NETS,
HANDLINES

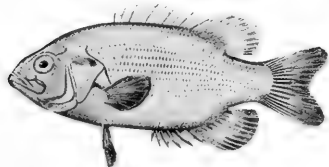


QUILLBACK
RANGE - FRESH-WATER
GEAR - HAUL SEINES, TROT LINES, FYKE NETS

PICTORIAL SECTION



RATFISH
 RANGE - WASHINGTON TO ALASKA
 GEAR - BEAM TRAWLS, LONGLINES



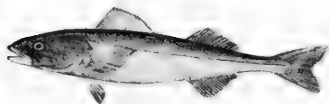
ROCK BASS
 RANGE - GREAT LAKES
 GEAR - TRAP NETS, FYKE NETS, HAUL SEINES,
 GILL NETS



ROCKFISH
 RANGE - CALIFORNIA TO ALASKA
 GEAR - LINES, OTTER TRAWLS, PARANZELLA NETS,
 GILL NETS



RUDDERFISH
 RANGE - CALIFORNIA
 GEAR - LAMPARA AND RING NETS



SABLEFISH
 RANGE - PACIFIC COAST STATES AND ALASKA
 GEAR - LONGLINES, OTTER TRAWLS



SALMON, CHINOOK OR KING
 RANGE - CALIFORNIA TO ALASKA
 GEAR - POUND NETS, PURSE SEINES, GILL NETS,
 HAUL SEINES, TROLL LINES, REEF NETS



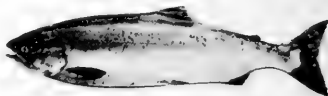
SALMON, CHUM OR KETA
 RANGE - OREGON TO ALASKA
 GEAR - POUND NETS, PURSE SEINES, GILL NETS,
 HAUL SEINES, REEF NETS



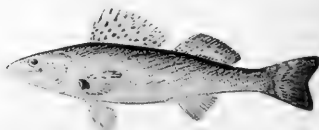
SALMON, PINK
 RANGE - WASHINGTON TO ALASKA
 GEAR - PURSE SEINES, POUND NETS, GILL NETS,
 REEF NETS



SALMON, RED OR SOCKEYE
 RANGE - OREGON TO ALASKA
 GEAR - GILL NETS, PURSE SEINES, POUND NETS,
 REEF NETS

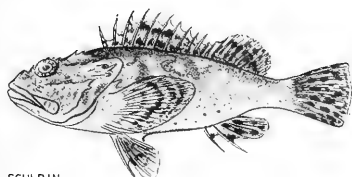


SALMON, SILVER OR COHO
 RANGE - CALIFORNIA TO ALASKA
 GEAR - HAUL SEINES, PURSE SEINES, GILL NETS,
 TROLL LINES, POUND NETS, REEF NETS

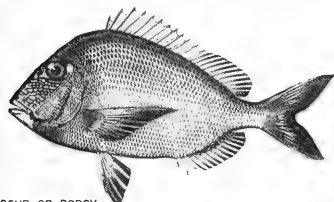


SAUGER
 RANGE - GREAT LAKES
 GEAR - GILL NETS, HAUL SEINES, TRAP NETS,
 FYKE NETS

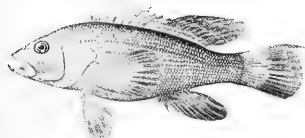
PICTORIAL SECTION



SCULPIN
RANGE - PACIFIC COAST STATES AND ALASKA
GEAR - LINES, GILL NETS, POTS



SCUP OR PORGY
RANGE - FLORIDA TO NEW ENGLAND
GEAR - OTTER TRAWLS, POUND NETS



SEA BASS
RANGE - FLORIDA TO NEW ENGLAND
GEAR - OTTER TRAWLS, HANDLINES, POTS



SEA CATFISH
RANGE - TEXAS TO CHESAPEAKE BAY
GEAR - OTTER TRAWLS, HAUL SEINES, HANDLINES



SEA ROBIN
RANGE - CHESAPEAKE BAY TO NEW ENGLAND
GEAR - POUND NETS, OTTER TRAWLS



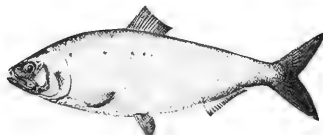
SEA TROUT OR WEAKFISH, GRAY
RANGE - FLORIDA TO MASSACHUSETTS
GEAR - OTTER TRAWLS, POUND NETS, PURSE SEINES,
GILL NETS, HAUL SEINES



SEA TROUT OR WEAKFISH, SPOTTED
RANGE - MARYLAND TO TEXAS
GEAR - GILL NETS, TRAMMEL NETS, HAUL SEINES,
POUND NETS, OTTER TRAWLS, HANDLINES



SEA TROUT OR WEAKFISH, WHITE
RANGE - GULF OF MEXICO
GEAR - GILL NETS, HAUL SEINES, HANDLINES

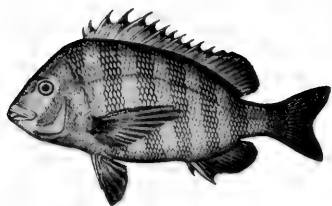


SHAD
RANGE - FLORIDA TO NEW ENGLAND
GEAR - GILL NETS, POUND NETS, FYKE NETS,
HAUL SEINES



SHARK
RANGE - ATLANTIC COAST, GULF, PACIFIC COAST STATES
GEAR - LONGLINES, GILL NETS, OTTER TRAWLS

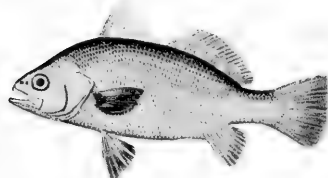
PICTORIAL SECTION



SHEEPSHEAD
 RANGE - TEXAS TO CHESAPEAKE BAY
 GEAR - HANDLINES, POTS



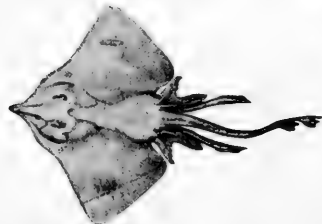
SHEEPSHEAD, CALIFORNIA
 RANGE - CALIFORNIA
 GEAR - LONGLINES, TRAMMEL NETS



SAND PERCH
 RANGE - TEXAS TO NEW YORK
 GEAR - HAUL SEINES, GILL NETS, POUND NETS



SILVERSIDES
 RANGE - NEW YORK
 GEAR - HAUL SEINES, OTTER TRAWLS



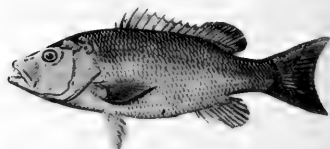
SKATE
 RANGE - PACIFIC COAST, CHESAPEAKE BAY TO NEW ENGLAND
 GEAR - LINES, OTTER TRAWLS, POUND NETS, HAUL SEINES



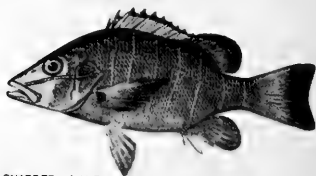
SKIPPER
 RANGE - VIRGINIA TO NOVA SCOTIA
 GEAR - POUND NETS, WEIRS



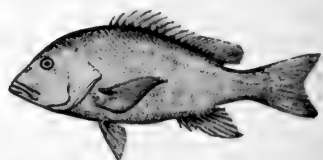
SMELT
 RANGE - NEW YORK TO MAINE, PACIFIC OCEAN,
 GREAT LAKES
 GEAR - POUND NETS, DIP NETS, GILL NETS, HAUL SEINES



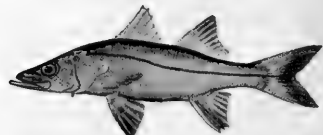
SNAPPER, MANGROVE
 RANGE - FLORIDA
 GEAR - HANDLINES, GILL NETS



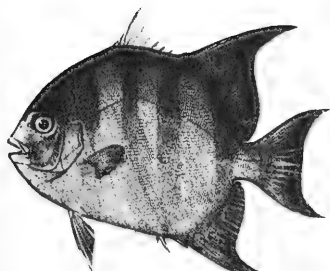
SNAPPER, LANE
 RANGE - FLORIDA
 GEAR - HANDLINES



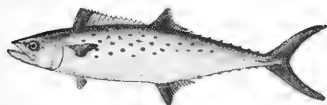
SNAPPER, RED
 RANGE - TEXAS TO FLORIDA
 GEAR - HANDLINES



SNOOK
 RANGE - TEXAS TO FLORIDA
 GEAR - GILL NETS, HANDLINES, HAUL SEINES



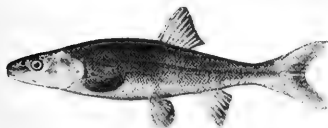
SPADE FISH
 RANGE - FLORIDA
 GEAR - GILL NETS, TRAMMEL NETS



SPANISH MACKEREL
 RANGE - TEXAS TO VIRGINIA
 GEAR - GILL NETS, LINES, HAUL SEINES



SPOT
 RANGE - GULF OF MEXICO TO MIDDLE ATLANTIC STATES
 GEAR - HAUL SEINES, GILL NETS, POUND NETS,
 OTTER TRAWLS



SQUAWFISH
 RANGE - CALIFORNIA
 GEAR - FYKE NETS, GILL NETS



STEELHEAD TROUT
 RANGE - OREGON TO ALASKA
 GEAR - HAUL SEINES, POUND NETS, GILL NETS,
 LINES, DIP NETS



STRIPED BASS
 RANGE - NORTH CAROLINA TO NEW ENGLAND, CALIFORNIA
 TO OREGON
 GEAR - HAUL SEINES, GILL NETS, POUND NETS,
 HANDLINES, FYKE NETS



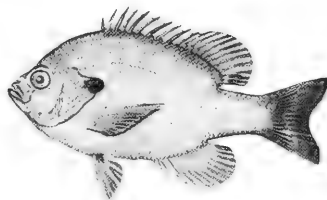
STURGEON
 RANGE - COASTAL AND RIVER AREAS
 GEAR - GILL NETS, LINES



STURGEON, SHOVELNOSE
 RANGE - FRESH-WATER
 GEAR - HAUL SEINES, LINES, POUND NETS



SUCKER
 RANGE - FRESH-WATER
 GEAR - POUND NETS, FYKE NETS, GILL NETS,
 HAUL SEINES, TRAP NETS



SUNFISH
 RANGE - FRESH-WATER
 GEAR - POTS, SEINES, TRAP NETS



SWELLFISH
 RANGE - CHESAPEAKE BAY TO MIDDLE ATLANTIC
 GEAR - POUND NETS, HAUL SEINES, OTTER TRAWLS

PICTORIAL SECTION



SWORDFISH
 RANGE - NEW ENGLAND AND CALIFORNIA
 GEAR - HARPOONS



TAUTOG
 RANGE - CHESAPEAKE BAY TO NEW ENGLAND
 GEAR - POUND NETS, HANDLINES, POTS



TENPOUNDER
 RANGE - FLORIDA
 GEAR - HAUL SEINES



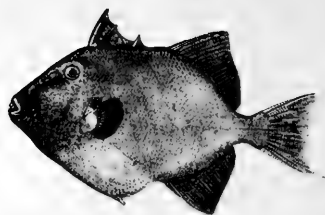
THIMBLE-EYED MACKEREL
 RANGE - CHESAPEAKE BAY TO NEW ENGLAND
 GEAR - POUND NETS, PURSE SEINES, OTTER TRAWLS



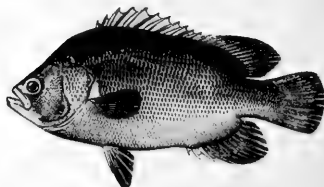
TILEFISH
 RANGE - MIDDLE ATLANTIC AND NEW ENGLAND STATES
 GEAR - LONGLINES, REEF NETS, OTTER TRAWLS



TOMCOD
 RANGE - PACIFIC COAST, MIDDLE ATLANTIC AND
 NEW ENGLAND STATES
 GEAR - OTTER TRAWLS, DIP NETS



TRIGGERFISH
 RANGE - FLORIDA
 GEAR - HANDLINES



TRIPLETAIL
 RANGE - FLORIDA
 GEAR - HAUL SEINES, GILL NETS, LINES



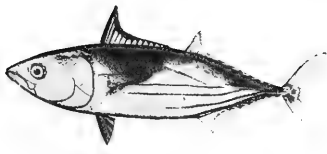
TUNA, ALBACORE
 RANGE - PACIFIC COAST
 GEAR - LINES



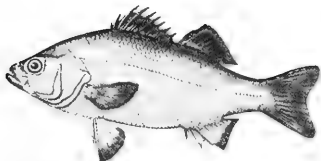
TUNA, BLUEFIN
 RANGE - CALIFORNIA, NEW JERSEY TO MAINE
 GEAR - PURSE SEINES, LAMPARA NETS, TROLL LINES,
 POUND NETS, HARPOONS



TUNA, LITTLE
 RANGE - MASSACHUSETTS TO TEXAS
 GEAR - POUND NETS, TROLL LINES, OTTER TRAWLS



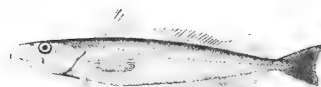
TUNA, SKIPJACK
 RANGE - CALIFORNIA
 GEAR - LINES AND PURSE SEINES



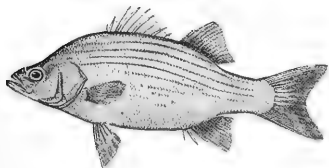
WHITE PERCH
 RANGE - NORTH CAROLINA TO MAINE
 GEAR - POUND NETS, FYKE NETS, HAUL SEINES



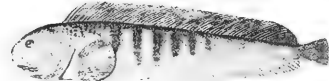
TUNA, YELLOWFIN
 RANGE - PACIFIC
 GEAR - LINES AND PURSE SEINES



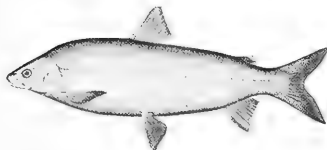
WHITING
 RANGE - VIRGINIA TO MAINE
 GEAR - OTTER TRAWLS, POUND NETS



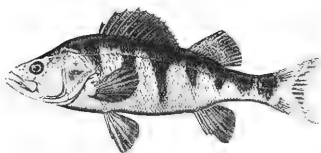
WHITE BASS
 RANGE - GREAT LAKES
 GEAR - TRAP NETS, FYKE NETS, HAUL SEINES,
 POUND NETS



WOLFFISH
 RANGE - MASSACHUSETTS AND MAINE
 GEAR - OTTER TRAWLS, LONGLINES



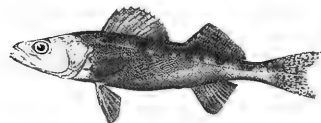
WHITEFISH, COMMON
 RANGE - GREAT LAKES
 GEAR - GILL NETS, POUND NETS, TRAP NETS



YELLOW PERCH
 RANGE - GREAT LAKES, OTHER LAKES
 GEAR - GILL NETS, TRAP NETS, POUND NETS,
 FYKE NETS

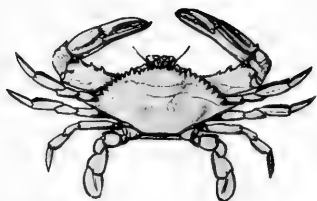


WHITEFISH, MENOMINEE
 RANGE - ALASKA, GREAT LAKES
 GEAR - GILL NETS, HAUL SEINES, TRAP NETS,
 POUND NETS



YELLOW PIKE
 RANGE - GREAT LAKES
 GEAR - POUND NETS, FYKE NETS, GILL NETS,
 TRAP NETS

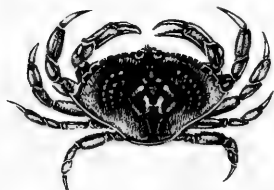
PICTORIAL SECTION



BLUE CRAB
 RANGE - TEXAS TO RHODE ISLAND
 GEAR - TROT LINES, POTS, FYKE NETS, DIP NETS,
 SCRAPES, DREDGES



STONE CRAB
 RANGE - FLORIDA
 GEAR - DIP NETS, CRAB POTS



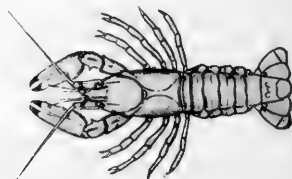
DUNGENESS CRAB
 RANGE - PACIFIC COAST STATES AND ALASKA
 GEAR - TRAPS



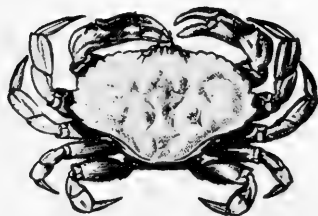
HORSESHOE CRAB
 RANGE - MARYLAND TO NEW YORK
 GEAR - POUND NETS, WEIRS, BY HAND



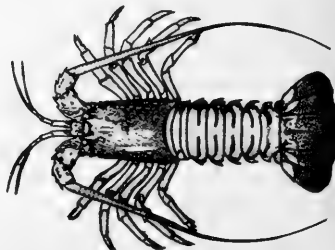
KING CRAB
 RANGE - ALASKA
 GEAR - OTTER TRAWLS



FRESH-WATER CRAWFISH
 RANGE - RIVERS AND LAKES
 GEAR - POTS

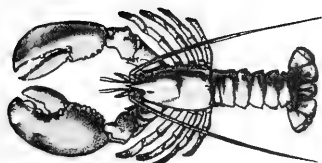


ROCK CRAB
 RANGE - NEW ENGLAND
 GEAR - POTS



SPINY LOBSTER
 RANGE - CALIFORNIA AND FLORIDA
 GEAR - DIP NETS, POTS, HOOKS

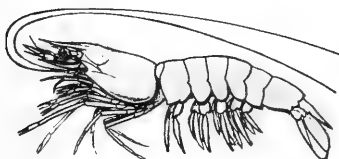
PICTORIAL SECTION



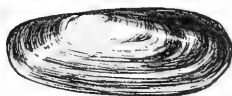
LOBSTER, NORTHERN
RANGE - VIRGINIA TO MAINE
GEAR - POTS, OTTER TRAWLS



HARD CLAM
RANGE - FLORIDA TO MAINE
GEAR - HOES, DREDGES, TONGS, RAKES, BY HAND



SHRIMP
RANGE - TEXAS TO NORTH CAROLINA, MAINE,
CALIFORNIA, WASHINGTON, AND ALASKA
GEAR - SHRIMP TRAWLS



RAZOR CLAM, PACIFIC
RANGE - OREGON, WASHINGTON AND ALASKA
GEAR - SHOVELS



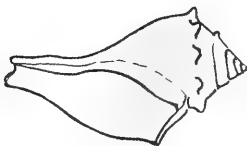
BUTTER CLAM
RANGE - PACIFIC COAST
GEAR - SHOVELS



SOFT CLAM
RANGE - MIDDLE ATLANTIC TO NEW ENGLAND,
PACIFIC COAST STATES
GEAR - FORKS, HOES, RAKES, DREDGES

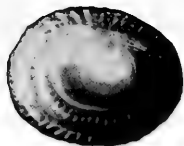


LITTLE NECK CLAM
RANGE - PACIFIC COAST
GEAR - SHOVELS

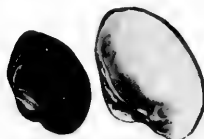


CONCH
RANGE - FLORIDA TO MAINE
GEAR - OTTER TRAWLS, DREDGES, POTS, AND BY HAND

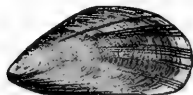
PICTORIAL SECTION



LIMPET
 RANGE - NEW YORK AND NEW ENGLAND
 GEAR - DREDGES



FRESH-WATER MUSSEL
 RANGE - FRESH-WATER STREAMS
 GEAR - CROWFOOT BARS, PICKS, HAND



SEA MUSSEL
 RANGE - NORTH CAROLINA TO MAINE
 GEAR - DREDGES, TONGS, RAKES, HAND



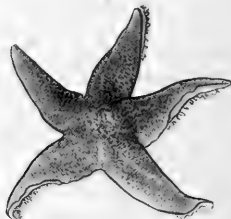
OYSTER
 RANGE - TEXAS TO MASSACHUSETTS, PACIFIC COAST
 GEAR - TONGS, DREDGES, RAKES, BY HAND



BAY SCALLOP
 RANGE - FLORIDA TO MASSACHUSETTS, WASHINGTON
 GEAR - DREDGES, SCRAPES, PUSH NETS, TONGS, RAKES,
 DIP NETS



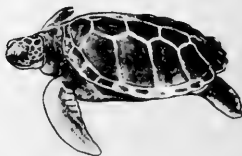
SEA SCALLOP
 RANGE - NEW JERSEY TO MAINE
 GEAR - DREDGES, OTTER TRAWLS



STARFISH
 RANGE - ATLANTIC AND PACIFIC COAST
 GEAR - HOOKS, SCRAPES, "MOPS"

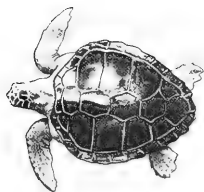


TERRAPIN
 RANGE - TEXAS TO NEW JERSEY
 GEAR - HAUL SEINES, BY HAND

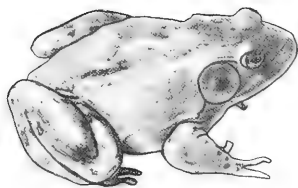


GREEN TURTLE
 RANGE - FLORIDA
 GEAR - GILL NETS

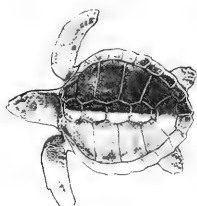
PICTORIAL SECTION



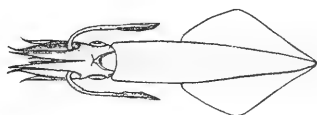
LOGGERHEAD TURTLE
RANGE - FLORIDA TO NEW JERSEY
GEAR - GILL NETS



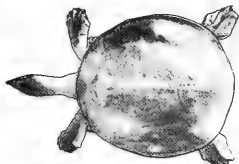
FROG
RANGE - FRESH-WATER, MARSHES, POND
GEAR - SPEARS, GRABS



HAWKSBILL TURTLE
RANGE - GULF OF MEXICO, AND ATLANTIC COAST
TO NEW YORK
GEAR - BY HAND, POUND NETS



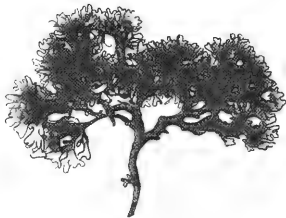
SQUID
RANGE - VIRGINIA TO MAINE, CALIFORNIA AND
WASHINGTON
GEAR - LAMPARA NETS, GILL NETS, OTTER TRAWLS,
POUND NETS



SOFT-SHELL TURTLE
RANGE - LAKES AND RIVERS
GEAR - HAUL SEINES, FYKE NETS, POTS



SPONGE
RANGE - FLORIDA
GEAR - HOOKS, DIVING OUTFITS



IRISH MOSS
RANGE - NEW ENGLAND
GEAR - RAKES

SECTION 16 - STATISTICAL PUBLICATIONS

The following list of publications includes all reports issued in the Current Fishery Statistics series during 1961.

| C. F. S. NO. | TITLE | C. F. S. NO. | TITLE |
|--------------|--|--------------|--|
| 2456 | ALABAMA LANDINGS, SEPTEMBER, 1960 | 2531 | CALIFORNIA LANDINGS, NOVEMBER, 1960 |
| 2457 | MISSISSIPPI RIVER FISHERIES, ANNUAL, 1959 | 2532 | VIRGINIA LANDINGS, ANNUAL, 1960 |
| 2458 | NEW YORK LANDINGS, OCTOBER, 1960 | 2533 | LOUISIANA LANDINGS, NOVEMBER, 1960 |
| 2459 | OHIO LANDINGS, OCTOBER, 1960 | 2534 | WASHINGTON LANDINGS, ANNUAL, 1960 |
| 2460 | TEXAS LANDINGS, SEPTEMBER, 1960 | 2535 | NEW JERSEY LANDINGS, JANUARY, 1961 |
| 2461 | VIRGINIA LANDINGS, OCTOBER, 1960 | 2536 | NEW YORK LANDINGS, JANUARY, 1961 |
| 2462 | NORTH CAROLINA LANDINGS, NOVEMBER, 1960 | 2537 | RHODE ISLAND LANDINGS, JANUARY, 1961 |
| 2463 | MARYLAND LANDINGS, NOVEMBER, 1960 | 2538 | CALIFORNIA LANDINGS, DECEMBER, 1960 |
| 2464 | RHODE ISLAND LANDINGS, OCTOBER, 1960 | 2539 | WISCONSIN LANDINGS, JANUARY, 1961 |
| 2465 | MANUFACTURED FISHERY PRODUCTS, ANNUAL, 1959 | 2540 | MICHIGAN LANDINGS, JANUARY, 1961 |
| 2466 | SOUTH CAROLINA LANDINGS, NOVEMBER, 1960 | 2541 | CANNED FISH AND BYPRODUCTS, ANNUAL, 1960 |
| 2467 | NEW JERSEY LANDINGS, NOVEMBER, 1960 | 2542 | PACKAGED FISH, ANNUAL, 1960 |
| 2468 | FISHERIES OF THE UNITED STATES, ANNUAL, 1959 | 2543 | MINNESOTA LANDINGS, ANNUAL, 1960 |
| 2469 | MAINE LANDINGS, OCTOBER, 1960 | 2544 | SHRIMP LANDINGS, NOVEMBER, 1960 |
| 2470 | GEORGIA LANDINGS, NOVEMBER, 1960 | 2545 | MASSACHUSETTS LANDINGS, DECEMBER, 1960 |
| 2471 | FISH MEAL AND OIL, NOVEMBER, 1960 | 2546 | NORTH CAROLINA LANDINGS, FEBRUARY, 1961 |
| 2472 | SHRIMP LANDINGS, SEPTEMBER, 1960 | 2547 | LOUISIANA LANDINGS, DECEMBER, 1960 |
| 2473 | FROZEN FISH, DECEMBER, 1960 | 2548 | SOUTH CAROLINA LANDINGS, FEBRUARY, 1961 |
| 2474 | CALIFORNIA LANDINGS, AUGUST, 1960 | 2549 | GEORGIA LANDINGS, FEBRUARY, 1961 |
| 2475 | CALIFORNIA LANDINGS, SEPTEMBER, 1960 | 2550 | MARYLAND LANDINGS, FEBRUARY, 1961 |
| 2476 | RHODE ISLAND LANDINGS, NOVEMBER, 1960 | 2551 | VIRGINIA LANDINGS, JANUARY, 1961 |
| 2477 | FLORIDA LANDINGS, NOVEMBER, 1960 | 2552 | FROZEN FISH REPORT, MARCH, 1961 |
| 2478 | SOUTH ATLANTIC FISHERIES, ANNUAL, 1960 | 2553 | FISH MEAL AND OIL, FEBRUARY, 1961 |
| 2479 | MISSISSIPPI LANDINGS, SEPTEMBER, 1960 | 2554 | RHODE ISLAND LANDINGS, ANNUAL, 1960 |
| 2480 | NEW YORK LANDINGS, NOVEMBER, 1960 | 2555 | SHRIMP LANDINGS, DECEMBER, 1960 |
| 2481 | SHRIMP LANDINGS, OCTOBER, 1960 | 2556 | NEW JERSEY LANDINGS, FEBRUARY, 1961 |
| 2482 | FISH STICKS AND PORTIONS, ANNUAL, 1960 | 2557 | FLORIDA LANDINGS, ANNUAL, 1960 |
| 2483 | MISSISSIPPI LANDINGS, OCTOBER, 1960 | 2558 | WISCONSIN LANDINGS, FEBRUARY, 1961 |
| 2484 | NORTH CAROLINA LANDINGS, DECEMBER, 1960 | 2559 | FLORIDA LANDINGS, FEBRUARY, 1961 |
| 2485 | MASSACHUSETTS LANDINGS, OCTOBER, 1960 | 2560 | MAINE LANDINGS, FEBRUARY, 1961 |
| 2486 | NEW YORK LANDINGS, DECEMBER, 1960 | 2561 | RHODE ISLAND LANDINGS, FEBRUARY, 1961 |
| 2487 | SOUTH CAROLINA LANDINGS, DECEMBER, 1960 | 2562 | MICHIGAN LANDINGS, FEBRUARY, 1961 |
| 2488 | MAINE LANDINGS, NOVEMBER, 1960 | 2563 | MISSISSIPPI LANDINGS, JANUARY, 1961 |
| 2489 | TEXAS LANDINGS, OCTOBER, 1960 | 2564 | NEW YORK LANDINGS, FEBRUARY, 1961 |
| 2490 | ALABAMA LANDINGS, OCTOBER, 1960 | 2565 | MINNESOTA LANDINGS, JANUARY & FEBRUARY, 1961 |
| 2491 | MARYLAND LANDINGS, DECEMBER, 1960 | 2566 | MIDDLE ATLANTIC FISHERIES, ANNUAL, 1960 |
| 2492 | VIRGINIA LANDINGS, NOVEMBER, 1960 | 2567 | VIRGINIA LANDINGS, FEBRUARY, 1960 |
| 2493 | FISH MEAL AND OIL, DECEMBER, 1960 | 2568 | MAINE LANDINGS, BY MONTHS, ANNUAL, 1960 |
| 2494 | ALABAMA LANDINGS, NOVEMBER, 1960 | 2569 | MAINE LANDINGS, BY COUNTY & GEAR, ANNUAL, 1960 |
| 2495 | FROZEN FISH REPORT, ANNUAL, 1960 | 2570 | TEXAS LANDINGS, JANUARY, 1961 |
| 2496 | MISSISSIPPI LANDINGS, NOVEMBER, 1960 | 2571 | FISH STICKS AND PORTIONS, JANUARY - MARCH, 1961 |
| 2497 | FROZEN FISH REPORT, JANUARY, 1961 | 2572 | MASSACHUSETTS LANDINGS, BY PORTS, ANNUAL, 1960 |
| 2498 | ALABAMA LANDINGS, DECEMBER, 1960 | 2573 | MASSACHUSETTS LANDINGS, BY GEAR & AREA, ANNUAL, 1960 |
| 2499 | LOUISIANA LANDINGS, MAY, 1960 | 2574 | OREGON LANDINGS, ANNUAL, 1960 |
| 2500 | LOUISIANA LANDINGS, JUNE, 1960 | 2575 | CALIFORNIA LANDINGS, JANUARY, 1961 |
| 2501 | LOUISIANA LANDINGS, JULY, 1960 | 2576 | MISSISSIPPI LANDINGS, FEBRUARY, 1961 |
| 2502 | NEW JERSEY LANDINGS, DECEMBER, 1960 | 2577 | NORTH CAROLINA LANDINGS, MARCH, 1961 |
| 2503 | OHIO LANDINGS, NOVEMBER, 1960 | 2578 | IMPORTS & EXPORTS OF FISHERY PRODUCTS, ANNUAL, 1956-60 |
| 2504 | OHIO LANDINGS, DECEMBER, 1960 | | |
| 2505 | FLORIDA LANDINGS, DECEMBER, 1960 | 2579 | SOUTH CAROLINA LANDINGS, MARCH, 1961 |
| 2506 | MAINE LANDINGS, DECEMBER, 1960 | 2580 | GEORGIA LANDINGS, MARCH, 1961 |
| 2507 | LOUISIANA LANDINGS, AUGUST, 1960 | 2581 | FISH MEAL AND OIL, MARCH, 1961 |
| 2508 | LOUISIANA LANDINGS, SEPTEMBER, 1960 | 2582 | MICHIGAN LANDINGS, MARCH, 1961 |
| 2509 | GEORGIA LANDINGS, DECEMBER, 1960 | 2583 | FLORIDA LANDINGS, MARCH, 1961 |
| 2510 | CALIFORNIA LANDINGS, OCTOBER, 1960 | 2584 | FROZEN FISH REPORT, APRIL, 1961 |
| 2511 | LOUISIANA LANDINGS, OCTOBER, 1960 | 2585 | MAINE LANDINGS, MARCH, 1961 |
| 2512 | TEXAS LANDINGS, NOVEMBER, 1960 | 2586 | FISH MEAL AND OIL, ANNUAL, 1960 |
| 2513 | VIRGINIA LANDINGS, DECEMBER, 1960 | 2587 | OHIO LANDINGS, MARCH, 1961 |
| 2514 | TEXAS LANDINGS, DECEMBER, 1960 | 2588 | ALABAMA LANDINGS, ANNUAL, 1960 |
| 2515 | MASSACHUSETTS LANDINGS, NOVEMBER, 1960 | 2589 | ALABAMA LANDINGS, JANUARY, 1961 |
| 2516 | NORTH CAROLINA LANDINGS, ANNUAL, 1960 | 2590 | MISSISSIPPI LANDINGS, ANNUAL, 1960 |
| 2517 | RHODE ISLAND LANDINGS, DECEMBER, 1960 | 2591 | RHODE ISLAND LANDINGS, MARCH, 1961 |
| 2518 | SOUTH CAROLINA LANDINGS, ANNUAL, 1960 | 2592 | NEW YORK LANDINGS, MARCH, 1961 |
| 2519 | GEORGIA LANDINGS, ANNUAL, 1960 | 2593 | MINNESOTA LANDINGS, MARCH, 1961 |
| 2520 | NEW YORK LANDINGS, ANNUAL, 1960 | 2594 | MARYLAND LANDINGS, ANNUAL, 1960 |
| 2521 | NORTH CAROLINA LANDINGS, JANUARY, 1961 | 2595 | WISCONSIN LANDINGS, MARCH, 1961 |
| 2522 | FISH MEAL AND OIL, JANUARY, 1961 | 2596 | CALIFORNIA LANDINGS, FEBRUARY, 1961 |
| 2523 | MISSISSIPPI LANDINGS, DECEMBER, 1960 | 2597 | ALABAMA LANDINGS, FEBRUARY, 1961 |
| 2524 | GEORGIA LANDINGS, JANUARY, 1961 | 2598 | SHRIMP LANDINGS, JANUARY, 1961 |
| 2525 | MARYLAND LANDINGS, JANUARY, 1961 | 2599 | FISH MEAL AND OIL, APRIL, 1961 |
| 2526 | SOUTH CAROLINA LANDINGS, JANUARY, 1961 | 2600 | MASSACHUSETTS LANDINGS, JANUARY, 1961 |
| 2527 | NEW JERSEY LANDINGS, ANNUAL, 1960 | 2601 | NORTH CAROLINA LANDINGS, APRIL, 1961 |
| 2528 | FROZEN FISH REPORT, FEBRUARY, 1961 | 2602 | GEORGIA LANDINGS, APRIL, 1961 |
| 2529 | FLORIDA LANDINGS, JANUARY, 1961 | 2603 | MISSISSIPPI LANDINGS, MARCH, 1961 |
| 2530 | MAINE LANDINGS, JANUARY, 1961 | 2604 | SHRIMP LANDINGS, ANNUAL, 1960 |

(CONTINUED ON NEXT PAGE)

STATISTICAL PUBLICATIONS

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| C. F. S. NO. | TITLE | C. F. S. NO. | TITLE |
|--------------|--|--------------|--|
| 2605 | NEW JERSEY LANDINGS, MARCH, 1961 | 2679 | SOUTH CAROLINA LANDINGS, JULY, 1961 |
| 2606 | NEW JERSEY LANDINGS, APRIL, 1961 | 2680 | MICHIGAN LANDINGS, JULY, 1961 |
| 2607 | SOUTH CAROLINA LANDINGS, APRIL, 1961 | 2681 | WISCONSIN LANDINGS, JULY, 1961 |
| 2608 | FLORIDA LANDINGS, APRIL, 1961 | 2682 | MISSISSIPPI LANDINGS, JUNE, 1961 |
| 2609 | MAINE LANDINGS, APRIL, 1961 | 2683 | VIRGINIA LANDINGS, JULY, 1961 |
| 2610 | FROZEN FISH REPORT, MAY, 1961 | 2684 | MINNESOTA LANDINGS, JULY, 1961 |
| 2611 | MICHIGAN LANDINGS, APRIL, 1961 | 2685 | CHESAPEAKE FISHERIES, ANNUAL, 1960 |
| 2612 | MARYLAND LANDINGS, MARCH, 1961 | 2686 | OHIO LANDINGS, JULY, 1961 |
| 2613 | TEXAS LANDINGS, FEBRUARY, 1961 | 2687 | LOUISIANA LANDINGS, FEBRUARY, 1961 |
| 2614 | MARYLAND LANDINGS, APRIL, 1961 | 2688 | MASSACHUSETTS LANDINGS, JUNE, 1961 |
| 2615 | NEW YORK LANDINGS, APRIL, 1961 | 2689 | NEW YORK LANDINGS, JULY, 1961 |
| 2616 | MASSACHUSETTS LANDINGS, FEBRUARY, 1961 | 2690 | MISSISSIPPI LANDINGS, JULY, 1961 |
| 2617 | VIRGINIA LANDINGS, MARCH, 1961 | 2691 | LOUISIANA LANDINGS, MARCH, 1961 |
| 2618 | VIRGINIA LANDINGS, APRIL, 1961 | 2692 | RHODE ISLAND LANDINGS, JUNE, 1961 |
| 2619 | CALIFORNIA LANDINGS, MARCH, 1961 | 2693 | RHODE ISLAND LANDINGS, JULY, 1961 |
| 2620 | MINNESOTA LANDINGS, APRIL, 1961 | 2694 | GULF FISHERIES, ANNUAL, 1960 |
| 2621 | OHIO LANDINGS, APRIL, 1961 | 2695 | SHRIMP LANDINGS, MAY, 1961 |
| 2622 | WISCONSIN LANDINGS, APRIL, 1961 | 2696 | NORTH CAROLINA LANDINGS, AUGUST, 1961 |
| 2623 | MISSISSIPPI LANDINGS, APRIL, 1961 | 2697 | FROZEN FISH REPORT, SEPTEMBER, 1961 |
| 2624 | ALABAMA LANDINGS, MARCH, 1961 | 2698 | ALABAMA LANDINGS, MAY, 1961 |
| 2625 | RHODE ISLAND LANDINGS, APRIL, 1961 | 2699 | GEORGIA LANDINGS, AUGUST, 1961 |
| 2626 | MASSACHUSETTS LANDINGS, MARCH, 1961 | 2700 | SOUTH CAROLINA LANDINGS, AUGUST, 1961 |
| 2627 | NORTH CAROLINA LANDINGS, MAY, 1961 | 2701 | FISH MEAL AND OIL, AUGUST, 1961 |
| 2628 | SOUTH CAROLINA LANDINGS, MAY, 1961 | 2702 | TEXAS LANDINGS, JUNE, 1961 |
| 2629 | GEORGIA LANDINGS, MAY, 1961 | 2703 | FLORIDA LANDINGS, AUGUST, 1961 |
| 2630 | SHRIMP LANDINGS, FEBRUARY, 1961 | 2704 | MAINE LANDINGS, AUGUST, 1961 |
| 2631 | NEW JERSEY LANDINGS, MAY, 1961 | 2705 | MICHIGAN LANDINGS, AUGUST, 1961 |
| 2632 | MARYLAND LANDINGS, MAY, 1961 | 2706 | NEW JERSEY LANDINGS, JULY, 1961 |
| 2633 | FLORIDA LANDINGS, MAY, 1961 | 2707 | NEW JERSEY LANDINGS, AUGUST, 1961 |
| 2634 | MAINE LANDINGS, MAY, 1961 | 2708 | WISCONSIN LANDINGS, AUGUST, 1961 |
| 2635 | FISH MEAL AND OIL, MAY, 1961 | 2709 | SHRIMP LANDINGS, JUNE, 1961 |
| 2636 | FROZEN FISH REPORT, JUNE, 1961 | 2710 | OHIO LANDINGS, AUGUST, 1961 |
| 2637 | NEW YORK LANDINGS, MAY, 1961 | 2711 | MARYLAND LANDINGS, AUGUST, 1961 |
| 2638 | ALABAMA LANDINGS, APRIL, 1961 | 2712 | MINNESOTA LANDINGS, AUGUST, 1961 |
| 2639 | MICHIGAN LANDINGS, MAY, 1961 | 2713 | VIRGINIA LANDINGS, AUGUST, 1961 |
| 2640 | WISCONSIN LANDINGS, MAY, 1961 | 2714 | CALIFORNIA LANDINGS, JUNE, 1961 |
| 2641 | VIRGINIA LANDINGS, MAY, 1961 | 2715 | LOUISIANA LANDINGS, APRIL, 1961 |
| 2642 | MINNESOTA LANDINGS, MAY, 1961 | 2716 | FISH STICKS AND PORTIONS, JULY - SEPTEMBER, 1961 |
| 2643 | TEXAS LANDINGS, MARCH, 1961 | 2717 | TEXAS LANDINGS, JULY, 1961 |
| 2644 | CALIFORNIA LANDINGS, APRIL, 1961 | 2718 | NEW YORK LANDINGS, AUGUST, 1961 |
| 2645 | OHIO LANDINGS, MAY, 1961 | 2719 | MASSACHUSETTS LANDINGS, JULY, 1961 |
| 2646 | MISSISSIPPI LANDINGS, MAY, 1961 | 2720 | LOUISIANA LANDINGS, MAY, 1961 |
| 2647 | TEXAS LANDINGS, APRIL, 1961 | 2721 | TEXAS LANDINGS, AUGUST, 1961 |
| 2648 | MASSACHUSETTS LANDINGS, APRIL, 1961 | 2722 | RHODE ISLAND LANDINGS, AUGUST, 1961 |
| 2649 | FISH STICKS AND PORTIONS, APRIL - JUNE, 1961 | 2723 | ALASKA FISHERIES, ANNUAL, 1960 |
| 2650 | NORTH CAROLINA LANDINGS, JUNE, 1961 | 2724 | HAWAII LANDINGS, ANNUAL, 1960 |
| 2651 | GEORGIA LANDINGS, JUNE, 1961 | 2725 | NEW JERSEY LANDINGS, SEPTEMBER, 1961 |
| 2652 | SOUTH CAROLINA LANDINGS, JUNE, 1961 | 2726 | NORTH CAROLINA LANDINGS, SEPTEMBER, 1961 |
| 2653 | MAINE LANDINGS, JUNE, 1961 | 2727 | SOUTH CAROLINA LANDINGS, SEPTEMBER, 1961 |
| 2654 | FLORIDA LANDINGS, JUNE, 1961 | 2728 | FROZEN FISH REPORT, OCTOBER, 1961 |
| 2655 | FISH MEAL AND OIL, JUNE, 1961 | 2729 | MICHIGAN LANDINGS, SEPTEMBER, 1961 |
| 2656 | SHRIMP LANDINGS, MARCH, 1961 | 2730 | FISH MEAL AND OIL, SEPTEMBER, 1961 |
| 2657 | FROZEN FISH REPORT, JULY, 1961 | 2731 | FLORIDA LANDINGS, SEPTEMBER, 1961 |
| 2658 | NEW JERSEY LANDINGS, JUNE, 1961 | 2732 | MAINE LANDINGS, SEPTEMBER, 1961 |
| 2659 | MARYLAND LANDINGS, JUNE, 1961 | 2733 | ALABAMA LANDINGS, JUNE, 1961 |
| 2660 | RHODE ISLAND LANDINGS, MAY, 1961 | 2734 | ALABAMA LANDINGS, JULY, 1961 |
| 2661 | MICHIGAN LANDINGS, JUNE, 1961 | 2735 | MARYLAND LANDINGS, SEPTEMBER, 1961 |
| 2662 | WISCONSIN LANDINGS, JUNE, 1961 | 2736 | LOUISIANA LANDINGS, JUNE, 1961 |
| 2663 | MINNESOTA LANDINGS, JUNE, 1961 | 2737 | SHRIMP LANDINGS, JULY, 1961 |
| 2664 | LOUISIANA LANDINGS, JANUARY, 1961 | 2738 | VIRGINIA LANDINGS, SEPTEMBER, 1961 |
| 2665 | NEW YORK LANDINGS, JUNE, 1961 | 2739 | MISSISSIPPI LANDINGS, AUGUST, 1961 |
| 2666 | VIRGINIA LANDINGS, JUNE, 1961 | 2740 | WISCONSIN LANDINGS, SEPTEMBER, 1961 |
| 2667 | OHIO LANDINGS, JUNE, 1961 | 2741 | OHIO LANDINGS, SEPTEMBER, 1961 |
| 2668 | TEXAS LANDINGS, MAY, 1961 | 2742 | MINNESOTA LANDINGS, SEPTEMBER, 1961 |
| 2669 | MASSACHUSETTS LANDINGS, MAY, 1961 | 2743 | RHODE ISLAND LANDINGS, SEPTEMBER, 1961 |
| 2670 | NORTH CAROLINA LANDINGS, JULY, 1961 | 2744 | NEW YORK LANDINGS, SEPTEMBER, 1961 |
| 2671 | MARYLAND LANDINGS, JULY, 1961 | 2745 | CALIFORNIA LANDINGS, JULY, 1961 |
| 2672 | GEORGIA LANDINGS, JULY, 1961 | 2746 | MAINE LANDINGS, OCTOBER, 1961 |
| 2673 | FISH MEAL AND OIL, JULY, 1961 | 2747 | MASSACHUSETTS LANDINGS, AUGUST, 1961 |
| 2674 | FLORIDA LANDINGS, JULY, 1961 | 2748 | LOUISIANA LANDINGS, JULY, 1961 |
| 2675 | MAINE LANDINGS, JULY, 1961 | 2749 | NORTH CAROLINA LANDINGS, OCTOBER, 1961 |
| 2676 | FROZEN FISH REPORT, AUGUST, 1961 | 2750 | CALIFORNIA LANDINGS, AUGUST, 1961 |
| 2677 | CALIFORNIA LANDINGS, MAY, 1961 | 2751 | MARYLAND LANDINGS, OCTOBER, 1961 |
| 2678 | SHRIMP LANDINGS, APRIL, 1961 | | |

Created in 1849, the Department of the Interior--America's Department of Natural Resources--is concerned with the management, conservation, and development of the Nation's water, fish, wildlife, mineral, forest, and park recreational resources. It also has major responsibilities for Indian and Territorial affairs.

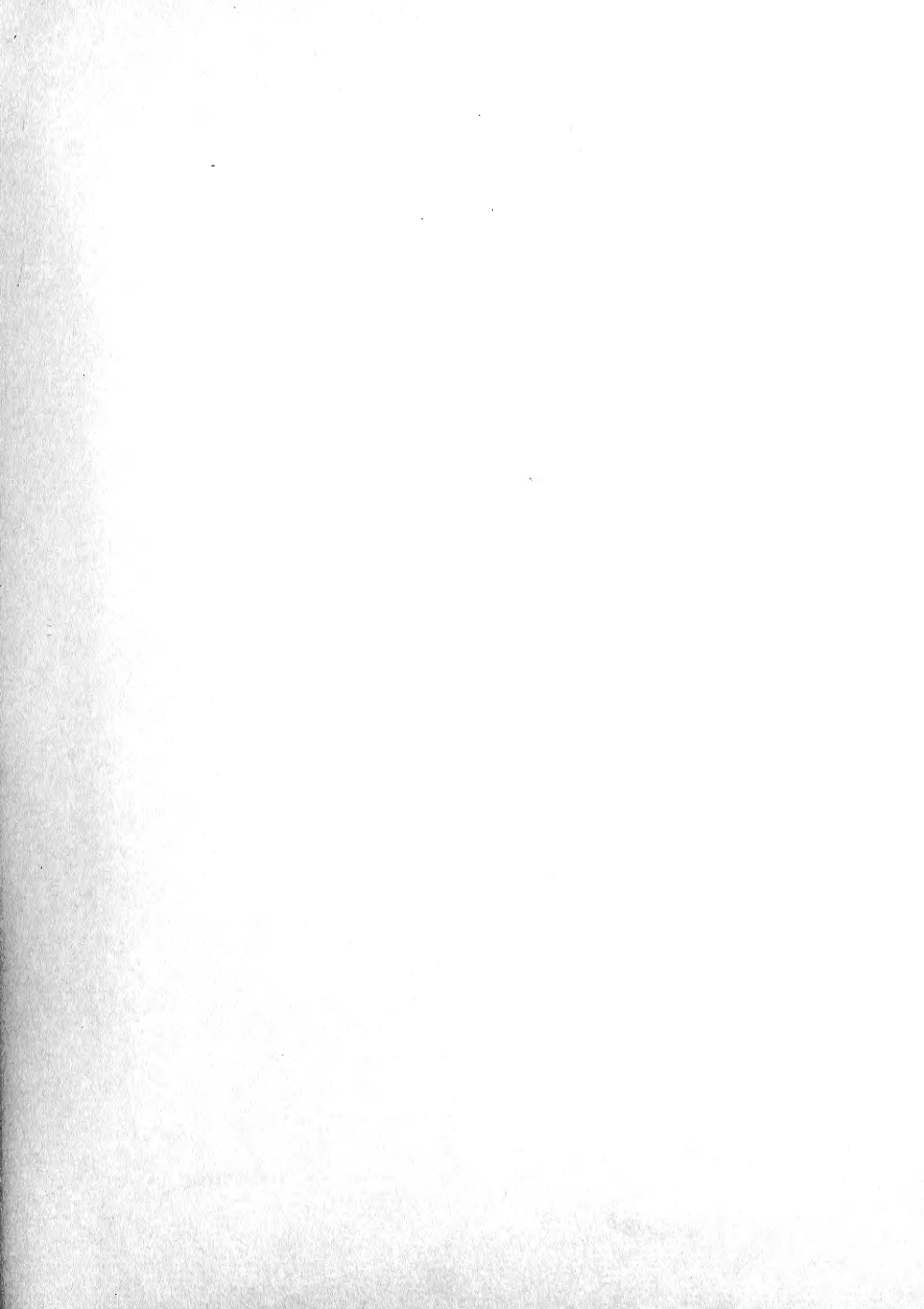
As the Nation's principal conservation agency, the Department works to assure that nonrenewable resources are developed and used wisely, that park and recreational resources are conserved for the future, and that renewable resources make their full contribution to the progress, prosperity, and security of the United States--now and in the future.

STATISTICAL PUBLICATIONS

An assemblage of the many statistical publications currently released by the Branch of Statistics, Bureau of Commercial Fisheries.







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